DRAFT

*TM 9-1300-280-12&P

TECHNICAL MANUAL

OPERATOR AND UNIT MAINTENANCE MANUAL FOR

NON-LETHAL CAPABILITY SET (NLCS) (NSN TBD)

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HEADQUARTERS, DEPARTMENT OF THE ARMY

1 SEPTEMBER 2000

*This publication supersedes DRAFT TM 9-1300-280-12&P, dated 12 April 2000.

DRAFT

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WARNING SUMMARY

The caltrops has sharp points. To avoid injury, handle carefully.

Lithium batteries can explode or cause burns if disassembled, shorted, recharged or exposed to fire or high temperatures. Handle with care.

To avoid injury, all strap and tie connections on the training suit must be secured prior to use. Do not overtighten straps, blood flow restriction can occur.

High intensity light is very hot when in use and can cause serious skin burns therefore, do not touch lens when light is on; turn off unit when replacing filter.

High intensity light can cause eye damage therefore; do not point light directly at face of person closer than 50 feet; do not shine light into eyes of oncoming drivers.

To prevent electrical hazard, do not immerse high intensity light in water.

Do not operate high intensity light in an explosive environment. Battery may vent and release flammable gas. Charge battery in well-ventilated room or open air.

The siren of the portable bull horn is very loud even when volume is low. Use caution when operating as injury to hearing can occur.

Minimize sound before using portable bull horn before speaking into microphone to avoid injury to hearing.

To avoid potentially harmful feedback, always point portable bull horn microphone away from speakers.

Feedback from ground mounted bull horn can damage hearing and equipment. Always be sure that volume controls are at a minimum before using bull horn. If feedback occurs, reduce volume.

Non-lethal munitions have the potential for inflicting lethal injuries and should be used with discretion. Do not fire at live targets during training.

Never fire a round of any type to dislodge a projectile lodged in the barrel.

When firing the 12-gauge flash-bang round, aim weapon so that projectile explodes no closer than 3 meters from target.

All personnel within 20 meters of the firing position of the 12-gauge flash-bang round should wear hearing protection (plugs or muffs).

Gunners firing the 12-gauge flash-bang round should fire only from well ventilated places, as no toxic fume tests were performed on the round.

Beyond 20 meters, 12-gauge non-lethal rounds lose accuracy and may no longer have the velocity required to stun an individual.

12-Gauge and 40MM non-lethal rounds fired at subjects closer than 10 meters, or which strike the head or groin can cause serious injury or death.

Use 40mm sponge point grenade (M1006) with launcher M203. 40mm non-lethal munitions cannot be used with the MK19 MOD3 40mm grenade machine gun.

Use a dedicated M203 gunner for the M1006 non-lethal cartridge separate from the M203 gunners that use black powder non-lethal rounds. This will avoid the potential for lodged M1006.

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WARNING SUMMARY - Continued

Observe all specified limits for storage and firing of the M1006. Only fire rounds between ambient temperatures of 0 and 125 degrees Fahrenheit.

Do not fire M1006 against hard surfaces closer than 20 meters. There is a potential for rebounds and eye damage could occur. Eye protection for the gunner is recommended.

Do not mix the M1006 non-lethal cartridge with other types of non-lethal munitions and do not mix with live service ammunition of the same caliber.

Plastic residue on the barrel produced from firing the M1006 cannot be removed with the standard M203 cleaning kit bore brush. Use the metal bristle bore brush from the 40mm MK19 grenade machine gun kit, or fire a 40mm M781 practice or 40mm M433, HEDP cartridge to remove the residue.

To prevent unintentional discharge of CR agent, do not carry unlocked disperser in pouch at any time. Do not depress top of pouch while disperser is inside.

When entering restricted space or conducting an action which might exert pressure on the disperser top or pouch (e.g., buckling seat belt) be sure to avoid pressure on disperser or pouch.

When using non-ballistic face shield, when visor is down, ensure forward edge of seal contacts visor to prevent seepage of liquid between visor and helmet which could harm wearer.

Place non-ballistic face shield in the down position to maximum protection during non-ballistic confrontations.

Be sure that bolts on the ballistic body shield do not protrude more than 0.125 inches to prevent injury to personnel. Do not overtighten cross-head screws. Doing so might crack plastic and seriously degrade shield performance.

HEADQUARTERS, DEPARTMENT OF THE ARMY WASHINGTON, DC, 1 SEPTEMBER 2000

TECHNICAL MANUAL

OPERATOR AND UNIT MAINTENANCE MANUAL

NON-LETHAL CAPABILITY SET (NLCS) NSN TBD

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), located in the back of this manual, direct to: Commander, U.S. Army TACOM, Armament Research, Development and Engineering Center, ATTN: AMSTA-AR-WEL-S, Picatinny Arsenal, NJ 07806-5000. You may also send in your recommended changes via electronic mail or by fax. Our e-mail address is LSB@PICA.ARMY.MIL. Our fax number is DSN 880-4633, Commercial (973) 724-4633. A reply will be furnished to you.

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HOW TO USE THIS MANUAL

GENERAL

This manual contains all descriptive, operational, troubleshooting and maintenance information required to operate and maintain the Non-Lethal Capability Set.

CONTENT OF MANUAL

This manual is divided into 6 chapters:

Chapter 1, Description and Theory of Operation

Chapter 2, Operator Instructions

Chapter 3, Troubleshooting Procedures

Chapter 4, Operator Maintenance Instructions

Chapter 5, Unit Maintenance Instructions

Chapter 6, Supporting Information

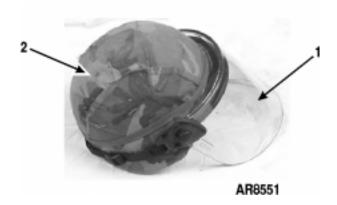
HOW TO ACCESS INFORMATION QUICKLY

The chapters are divided into work packages (WP). Each WP is assigned a six digit sequence number. The sequence numbers run consecutively throughout the manual. The first four digits of the WP sequence number are based on the location of the WP (e.g., 0005 00 is the fifth WP). The last two digits are reserved for WPs added after initial publication (e.g., 0005 01 is a WP added between WP 0005 00 and 0006 00). WP page numbers are numbered consecutively and consist of the WP sequence number followed by -1, -2, -3, etc. (e.g., 0005 00-1, 0005 00-2, etc.).

SUPPORTING ILLUSTRATIONS

All supporting illustrations are located on the same or facing page as the text they support. Illustrations are labeled with numbers reflecting referenced callouts in the text, for example:

Attach the face shield (1) to the helmet (2).



GENERAL INFORMATION

SCOPE

This technical manual contains operation and maintenance instructions for non-lethal items as well as provides descriptions and data for non-lethal ammunition that comprise the Non-Lethal Capability Set (NLCS).

Type of Manual: Operator and Unit Maintenance.

Equipment Name(s): Non-Lethal Capability Set (NLCS).

Purpose of Equipment: The Non-Lethal Capability Set (NLCS) provides a commander with various non-lethal options during military Stability and Support Operations (SASO) dealing with, but not limited to, riot control and other civil disturbances.

MAINTENANCE FORMS, RECORDS, AND REPORTS

Department of the Army forms and procedures used or equipment maintenance will be those prescribed by DA PAM 738-750, Functional Users Manual for The Army Maintenance Management System (TAMMS). Accidents involving injury to personnel or damage to material will be reported on DA Form 285 (Accident Report) in accordance with AR 385-40. Explosives and ammunition malfunctions will be reported in accordance with AR 75-1.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your Non-Lethal Capability Set needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 (Product Quality Deficiency Report). Mail it to the address specified in DA PAM 738-750, Functional Users Manual for the Army Maintenance Management System (TAMMS), or as specified by the acquiring activity. We will send you a reply.

CORROSION PREVENTION AND CONTROL (CPC)

Corrosion Prevention and Control (CPC) of Army materiel is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items.

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials, such as rubber and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

If a corrosion problem is identified, it can be reported using SF 368, Product Quality Deficiency Report. Use of key words such as "corrosion," "rust," "deterioration," or "cracking" will ensure that the information is identified as a CPC problem.

The form should be submitted to the address specified in DA PAM 738-750, Functional Users Manual for the Army Maintenance Management System (TAMMS).

PREPARATION FOR STORAGE OR SHIPMENT

The storage site should protect the NLCS from the elements and allow access for visual inspection.

NOMENCLATURE CROSS-REFERENCE LIST

<u>Common Name</u> <u>Official Nomenclature</u>

Stinger 40mm Multiple Rubber Ball Round

LIST OF ABBREVIATIONS/ACRONYMS

Abbreviation/Acronym Definition

BII Basis of Issue Items

CAGEC Commercial and Government Entity Code

COTS Commercial Off The Shelf

CPC Corrosion Prevention and Control
CTA Commercial Table of Allowances

COEI Components of End Item
DRS Disposable Restraint System

EIR Equipment Improvement Recommendations

EPW Enemy Prisoner of War GOTS Government Off The Shelf

HMMWV High Mobility Multi-Purpose Wheeled Vehicle

MAC Maintenance Allocation Chart
MCCM Modular Crowd-Control Munition
MOOTW Military Operations Other Than War

NL Non-Lethal

NLCS Non-Lethal Capability Set NSN National Stock Number

PASGT Personnel Armor System Ground Troops

PN Part Number RCA Riot ControlAgent

SRA Specialized Repair Activity
SASO Stability And Support Operations

TAMMS The Army Maintenance Management System

TBD To Be Determined

TMDE Test, Measurement and Diagnostics Equipment

TOE Table of Equipment WP Work Package

SAFETY, CARE AND HANDLING

Non-Ballistic Riot Face Shield and Non-Ballistic Riot Body Shield

The non-ballistic riot face shield and body shield are made of polycarbonate plastic. Gasoline and similar hydrocarbon solvents damage the plastic and eventually the shield will crack. Proper handling is required. Avoid ANY exposure to gasoline, diesel, solvents or chemicals. Avoid scratching while handling components.

Batteries

Lithium batteries can explode or cause burns if disassembled, shorted, recharged or exposed to fire or high temperatures.

Do not touch thebattery terminals on the high intensity light with any metal object. A short circuit could result.

CHAPTER 1

DESCRIPTION AND THEORY OF OPERATION FOR NON-LETHAL CAPABILITY SET

OPERATOR MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD) EQUIPMENT DESCRIPTION AND DATA

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

General

The Non-Lethal Capability Set (NLCS) supports Army units selected to participate in ground force operations where a non-lethal (NL) capability is required; e.g., Military Operations Other Than War (MOOTW), civil disturbance, riot control, less than lethal. The set enhances a commander's ability to conduct operations throughout the full spectrum of peace and conflict operations. Army units conducting Stability And Support Operations (SASO) or other missions anywhere in the world (domestic and foreign) where NL force options are needed will use a NLCS to enhance their force protection and reduce non-combatant casualties.

The NLCS is designed to enhance operations of existing systems. This minimizes training time for soldiers already familiar with the basic systems and only requires soldiers to train on the unique characteristics of the NL munitions that will be employed from the system.

Components

The NLCS contains the weapons systems, munitions and equipment required to satisfy the operational requirement for an enhanced capability to apply non-lethal force. The components are explicitly designed and primarily employed to incapacitate personnel or material, while minimizing fatalities or permanent injury to intended targets and collateral damage to property and the environment.

Individual Protective Equipment. Non-ballistic riot face shield, body shield and shin guards provide protection from threats such as debris, liquids and hand thrown objects. Ballistic face shield, body shield and shin guards provide protection from threats such as flammable liquids, hand thrown objects and direct/indirect fire, and are bullet resistant (9 mm and .44 Magnum pistol rounds). The individual protective equipment is capable of being used with current weapons, clothing and equipment normally carried, worn or used when carrying out a mission.

Weapons. Munitions (such as 40mm area and point rounds) are provided for weapons already supplied to a unit and give soldiers the capability for NL fire on crowds; individuals are stunned or deterred without the body being penetrated. Unique weapons (such as Riot Control Agent (RCA) dispersers, 12 gauge shotguns, and batons) provide soldiers the capability of self-defense or restraining rioters.

Enhancement Devices. Lights (such as 12 gauge shotgun lights or body shield lights) and voice amplifying devices (such as bullhorns or audio frequency amplifiers for protective masks) are provided to increase command and control capabilities during operations such as low-light or crowd noise conditions. Devices (such as Caltrops) are also provided that can be used for individual, group or vehicle area denial, or that can augment access control or check point operations.

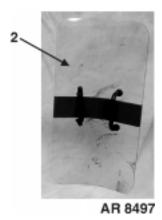
Training Devices. Training devices (such as riot training suits and riot training bags) and training ammunition provide soldiers the ability to become accustomed to duty weapons in a training environment.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

NON-BALLISTIC RIOT FACE SHIELD: The non-ballistic riot face shield (1) provides the soldier with face protection. It has a transparent visor with an internal lip that keeps the top edge of the visor above the rim of the helmet for a tight seal. The visor has a latch assembly that locks the visor into the up or down positions.



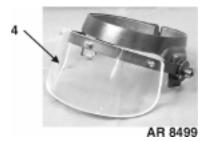
NON-BALLISTIC RIOT BODY SHIELD: The non-ballistic riot body shield (2) provides the soldier with torso protection. It has two ambidextrous arm/hand loops for carrying that are covered with a non-slip material.



NON-BALLISTIC RIOT SHIN GUARDS: The non-ballistic riot shin guards (3) provide the soldier with protection for the front of the leg, the knee, and the top of the foot. The shin guards are attached using four adjustable buckle straps.



BALLISTIC FACE SHIELD: The ballistic face shield (4) provides the soldier with face protection. The transparent visor curves and conforms to the face, providing peripheral vision.



BALLISTIC BODY SHIELD: The ballistic body shield (5) provides the soldier with torso protection. The ballistic body shield has a padded ambidextrous handle and harness assembly, allowing for one-hand or two-hand operation. A pad provides impact protection for the forearm and hand.



BALLISTIC SHIN GUARDS: The ballistic shin guards (6) provide the soldier with protection on the front of the leg. The shin guards are attached using two velcro straps.



SHIELD LIGHT: The shield light (7) provides illumination the soldier can control from behind the shield. The light has a momentary pressure switch to turn on the light temporary or a flag switch for continuous light.



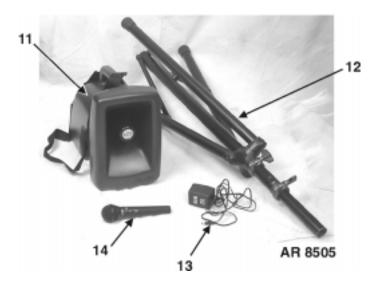
WOODEN BATON: The wooden baton (8) provides self-defense for the soldier and the option between physical force and lethal force. The baton comes with a mounting device (9) to attach the baton to a belt.



PORTABLE BULLHORN: The portable bullhorn (10) enhances communication over crowd noise. It has a pistol-grip trigger switch for single-handed operation and a built-in siren for emergency situations.



GROUND MOUNTED BULLHORN, WITH ACCESSORIES: The ground mounted bullhorn (11) enhances communication over crowd noise. The accessories consist of a tripod (12), a charger (13) and a cordless microphone (14).



AUDIO FREQUENCY AMPLIFIER: The audio frequency amplifier (15) provides communication using radios and other devices while wearing a protective mask and conducting crowd control tactics.



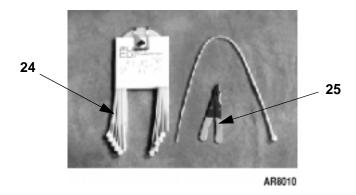
INDIVIDUAL HIGH INTENSITY LIGHT: The individual high intensity light (16) provides illumination during low-light conditions. The hand-held light can be turned on for temporary or continuous illumination. A pouch (17) is available for carrying the light.



HIGH INTENSITY LIGHT, WITH ACCESSORIES KIT: The high intensity light provides illumination for low-light operations. An ON/OFF switch is on the handle of the hand-held light. The light component consists of a waterproof carrying case (18), carrying strap (19), the high intensity light (20), a filter (21), a 10-foot power cord (22), and a charging unit (23).



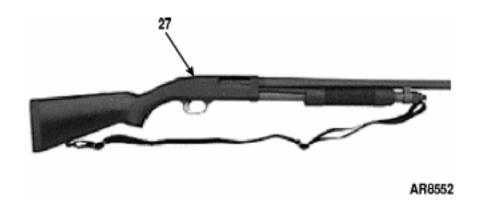
DISPOSABLE RESTRAINT SYSTEM (DRS): The Disposable Restraint System (DRS) (24) is used for restraining and controlling individuals or securing weapons. It is a plastic band with a self-locking mechanism at one end. A cutting tool (25) is provided to remove the band.



CALTROPS: The caltrops (26) is placed or thrown in the pathway of pedestrians or vehicles to penetrate footwear or tires of a passenger car or an off-road vehicle. It is a light-weight, 3-inch, 4 pronged device made of steel. Several caltrops can be connected together, increasing effectiveness.



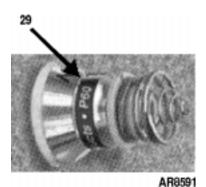
12 GAUGE SHOTGUN: The 12 gauge shotgun (27) provides an alternative to standard military weapons. The 3-inch chamber allows the use of numerous Government and commercial off-the-shelf lethal and NL munitions.



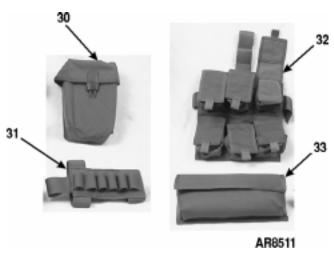
12 GAUGE SHOTGUN LIGHT: The high intensity light (28) attaches to a 12 gauge shotgun and provides illumination during low-light conditions. The light can be turned on for temporary or continuous illumination using a pressure switch on the side of the light.



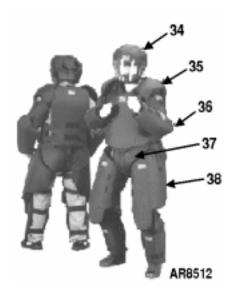
P60 LAMP: The P60 lamp (29) provides a replacement lamp for the shield light, the individual high intensity light, and the 12 gauge shotgun light. The lamp has a blue band that designates it is a 6-volt lamp.



POUCHES: Pouches are provided for carrying ammunition. The 12 gauge utility pouch (30) holds 25 rounds for the 12 gauge shotgun and is can be attached to a soldier's combat gear. The 12 gauge buttcuff carrier (31) holds 6 rounds and straps to the stock of a standard military shotgun. The diversionary/rubber ball or flash grenade pouch (32) holds six diversionary device grenades or six sting ball grenades, or a combination of both. It consists of a modular rucksack with six removable compartments and components, each with a velcro fastened flap, and attaches to the leg with buckle straps. The 40mm carry pouch (33) holds 6 rounds of 40mm ammunition and attaches to a soldiers belt. It provides a soldier the ability to carry non-lethal ammunition separate from lethal rounds.



RIOT TRAINING SUIT: The riot training suit provides full body protection for the soldier while training for close combat. The suit consists of a helmet (34), chest and back protector (35), biceps and forearm protector (36), groin and buttock protector (37), thigh and shin protector (38), and gloves (not shown). The suit is attached together with velcro and ties.



RIOT TRAINING BAG: The riot training bag (39) is used during the training of soldiers for baton practice.

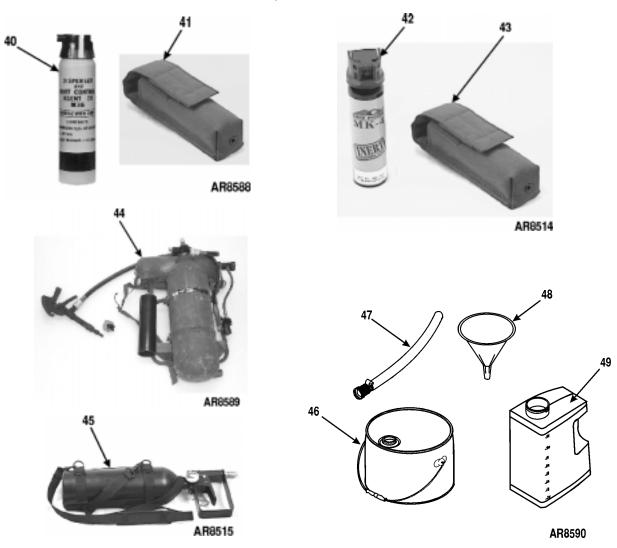




The Riot Control Agent (RCA) dispersers are part of the NLCS, however the descriptive information, operating instructions, troubleshooting procedures and maintenance procedures are in other technical manuals (TM). The referenced TMs must be obtained before using the dispersers.

RIOT CONTROL AGENT (RCA) DISPERSERS: RCA dispersers are provided for self defense or to keep rioters out of arms reach of soldiers conducting crowd control tactics or engaged in missions where a noncombatant threat exists. The M36 RCA disperser (40) has a flip top and a pouch (41) is available. The MK4 inert RCA disperser (42) is used for training purposes and a pouch (43) is available. The MK4 simulates the tactical filled M36, but is marked with a green label for inert. The M33A1 RCA disperser (44) consists of a frame and harness assembly, compressed gas cylinder (agent container assembly), air pressure assembly, gun and hose assembly, multi-jet spray unit, and check valve assembly. The M37 RCA disperser (45) is similar to a fire-extinguisher and can be used as a stream or spray. CR solution (46) provides refills for the M33A1 and the M37. The CR solution requires a refill kit consisting of a transfer tube (47), funnel (48) and transfer bottle (49).

For complete information on the M36, see TM 3-1365-204-12. For complete information on the M33A1, see TM 3-1040-262-13&P. For complete information on the M37 and the RCA refill unit, see TM 3-1040-287-12&P.



NOTE

For complete information on the ammunition in the NLCS, see WP 0043 00.

EQUIPMENT DATA

NOTE

All data are approximate.

NLCS:	
NSN	TBD
Part number	TBD
CAGEC	19200
C/ IGEC	1)200
Non-Ballistic Riot Face Shield:	
NSN	8465-01-467-0721
Part number	PD/CO-99-14
CAGEC	01365
Model	DK5H250
Manufactured Material:	
Visor	Polycarbonate
Attachment band	Thermoplastic rubber seal
Latch assembly	Thermoplastic
Weight	1.5 lb (0.68 kg)
Height	8 in.
Thickness	0.25 in.
Cube	1320 cu in.; 0.76 cu ft
Packaging	Commercial practices
Packing quantity	200 per set
	1
Non-Ballistic Riot Body Shield:	
NSN	TBD
Part number	PMBS-9
CAGEC	0N995
Model	PAULSON BS-9
Outer panel	24 x 48 in. (61 x 122 cm)
Shield thickness	.250 in.
Weight	13.5 lb (6.1 kg)
Cube	6900 cu in.; 4 cu ft
Manufactured Material:	
Shield	Transparent polycarbonate
Handles	Metal material, covered with non-slip material
Impact resistance	6'2" tent pole, ax or standard riot baton
Packaging	Commercial practices
Packing quantity	150 per set
	•
Non-Ballistic Riot Shin Guard:	
NSN:	
Size medium	8465-01-467-0740
Size large	8465-01-467-0744
Size extra-large	8465-01-467-0750
Part number	PD/CO-99-12
CAGEC	01365
Manufactured material	Polyethylene
Color	Black
Weight	2 lb ea (0.9 kg); 4 lb per pair (1.8 kg)
Cube	2880 cu in. per pair; 1.67 cu ft per pair
Packaging	Commercial practices
Packing quantity	150 per set

Ballistic Face Shield:	
NSN	8470-01-467-0754
Part number	PD/CO-99-15
CAGEC	01365
Model	702MT
Manufactured material	Polycarbonate
Weight	3.4 lb (1.54 kg)
Cube	2160 cu in.; 1.25 cu ft
Visor:	
Manufactured material	Molded polycarbonate
Dimensions (approx)	6 x 15 in.
Packaging	Commercial practices
Packing quantity	10 per set
Ballistic Body Shield:	
NSN	8470-01-467-0757
Part number	PD/CO-99-17
CAGEC	01365
Model	PT2237
Manufactured material	Spectra shield bullet resistant material
Finish	Anti-glare matte finish
Weight	18 lb
Cube	4968 cu in.; 2.88 cu ft
Dimensions	20 x 36 in.
Viewport	4 x 16 in.
Packaging	Commercial practices
Packing quantity	10 per set
Ballistic Shin Guard: NSN:	
Size medium	TBD
Size large	TBD
Size extra-large	TBD
Part number	PT1220
CAGEC	0N995
Model	TBD
Manufactured material	Kevlar MK2
Weight (per pair)	7-10 lb
Cube	2880 cu in. (per pair); 1.67 cu ft (per pair)
Packaging	Commercial practices
Packing quantity	10 per set
Shield Light:	
NSN	TBD
Part number	SF6SL
CAGEC	0N995
Model	6SL
Light output	65 lumens
Lamp	SFP60
Run time	Approx 1 hr
Battery type	2 3-volt lithium
Battery storage	5 to 10 yr
Packing quantity	10 per set

Vooden Baton: NSN	TBD
Part number	
CAGEC	
Model	
Weight	
Length	
Handle diameter	
Packing quantity	
1 western & dominated and a second	
ortable Bullhorn:	
NSN	TBD
Part number	AT1A2M
CAGEC	
Model	
Weight (w/o batteries)	3.5 lb
Cube	
Length	14.5 in.
Bell diameter	
Battery type	8 dry cell "C"
Acoustic range	· · · · · · · · · · · · · · · · · · ·
Power output	
Packing quantity	
	•
round Mounted Bullhorn:	
Contains	Bullhorn, wireless microphone, tripod, charger, carrying cas
NSN	
Part Number:	
Bullhorn	AAPPB35W1
Microphone	AAPBWH10001
Tripod	AASS450
CAGEC	0N995
Model	MEGA VOX PA SYTEM
Weight	15 lb (6.8 kg)
Dimensions	13.75 x 9 x 14.75 in. (35 x 23 x 37 cm)
Battery Type:	
Bullhorn	12-volt rechargeable, 4.0 AH, sealed lead acid
Microphone	1 AA, alkaline
Rated power output	22 watts
Max SPL @ rated power	
Frequency response	
Mic 1 input	
Mic 2 input	
Line input	
Line output (post fader)	
Line output (post fader)	
Speaker output	o omega, unswitched, 1/4 m. phone
Speaker output	3 to 12 hrs (depending on use)
Speaker output	3 to 12 hrs (depending on use) Up to 200 yd
Speaker output Operation time	3 to 12 hrs (depending on use) Up to 200 yd 16 volts AC, 1.5A, 60 Hz
Speaker output	3 to 12 hrs (depending on use) Up to 200 yd 16 volts AC, 1.5A, 60 Hz
Speaker output Operation time Range Charger (RC-16) Charging time	3 to 12 hrs (depending on use) Up to 200 yd 16 volts AC, 1.5A, 60 Hz Approx 8 hr
Speaker output Operation time Range Charger (RC-16) Charging time Tripod:	3 to 12 hrs (depending on use) Up to 200 yd 16 volts AC, 1.5A, 60 Hz Approx 8 hr 1-1/2 in.

Amplifier, Audio Frequency:	
NSN	5996-01-381-9012
Part number	1000-3028
CAGEC	61318
Model	M7
Used with	M40 mask
Battery type	9-volt, alkaline
Frequency	20 kHz and below
Packing quantity	200 per set
Individual High Intensity Light:	
NSN	TBD
Part number	SF6P
CAGEC	0N995
Model	6P
Weight (w/o batteries)	5 oz
Cube	0.03 cu ft
Length	4.9 in.
Battery:	4.7 III.
Type	2 3-volt lithium
Run time	60 min
	65 lumens
Output	SFP60
Lamp	
Packing quantity	15 per set
Carry Pouch (for Individual High Intensity Light):	
NSN	TBD
Part number	ATIEATAVLFP6POD
CAGEC	0N995
Packing quantity	15 per set
High Intensity Light:	
Contains	Light, 12-volt charging unit w/10 in. cord w/lighter end, 10-foot power
	cord, carrying strap, filter, waterproof carrying case
NSN	TBD
Part number	XENNCSUSA
CAGEC	0N995
Model	70-6004 NIGHT HUNTER
CAGEC	1KGM2
Length	13 in.
Diameter	5 in.
Weight	9.5 lb
Filter	850 nm near-infrared
Lens	Clear tempered glass, filters out UV radiation
Lamp:	
Type	Xenon short-arc
Life (approx)	500 hr
Battery:	
Type	12 VDC, thinline, sealed lead
Rating	20 VDC, 5A
Recharging time	4 hr
Recharging cycles (approx)	500
Power cable connector	6 ft w/male vehicle lighter adapter

High Intensity Light - Continued:	
Power Output (internal power):	
Peak power	40 min continuous use; 45 min intermittent use
Low power	1 hr continuous use; longer for intermittent use
Input Voltage (external power):	
Operation	12, 24, 28 VDC
Charging	12, 24, 28 VDC
Beam	1 to 15 degrees spread; 1900 yd
Packing quantity	20 per set
Temperature Limits:	
Operation	-4° to 122° F
Charging	32° to 104° F
Storage	-4° to 104° F
Replacement Bulb:	
Model	SFP60
Packing quantity	8 per set
	-
Disposable Restraint System (DRS):	
NSN	TBD
Part number	NIKFLEXCUFF
CAGEC	0N995
Width	1/2 in.
Packaging:	
Weight	28 lb
Cube	1.8 cu ft
Packing quantity	1,000 DRS per set; 2 cutters per set
Caltrops:	
NSN	TBD
Part number	ATIRSC3
CAGEC	0N995
Weight	0.33 lb
Cube	0.002 cu ft
Dimension	3 in.
Material	Steel
Penetration	Passenger car or off-road vehicle; most shoes or sandals
	Passenger car of off-foad vehicle, most shoes of sandars
Packaging:	100
Quantity	100
Weight	33 lb 0.222 cu ft
Cube	
Packing quantity	250 per set
12 Gauge Shotgun:	
NSN	1005-01-295-1832
Part number	50518
CAGEC	41758
Model	MOSSBERG 500
Chamber	3 in.
Packing quantity	50 per set
<u> </u>	-

12 Gauge Shotgun Light:	
NSN	TBD
Part number	SF622
CAGEC	0N955
Model	SF622
Lamp	SFP60
Battery type	2 3-volt lithium
Packing quantity	50 per set
SFP60 Lamp:	
Used with	Shield light, individual high intensity light, 12 gauge shotgun light
NSN	TBD
Part number	SFP60
CAGEC	0N995
Model	SFP60
Band	Blue, w/words "6vP60"
Type	6-volt
Output	65 lumens
Packing quantity	15 per set
12 Gauge Utility Pouch (25 Round):	
NSN	TBD
Part number	ATIEAUPMS
CAGEC	0N995
Weight	1.5 lb
Cube	0.208 cu ft
Material	Woodland camouflage, water repellant coated fabric
Packing quantity	50 per set
12 Gauge Buttcuff Carrier (6 Round):	
NSN	TBD
Part number	ATISSSCQTR
CAGEC	0N995
Weight	0.5 lb
Cube	0.016 cu ft
Material	Woodland camouflage, water repellant coated fabric
Packing quantity	50 per set
Diversionary/Rubber Ball or Flash Grenade Pouch:	
NSN	TBD
Part number	ATISASSDD60D
CAGEC	0N995
Material	Woodland camouflage, water repellant coated fabric
Packing quantity	25 per set
40mm Carrying Pouch:	
NSN	TBD
Part number	ATIEA40MM6
CAGEC	0N995
Weight	0.5 lb
Cube	0.094 cu ft
Material	Woodland camouflage, water repellant coated fabric
Packing quantity	100 per set

Riot Training Suit:

tock protector, thigh and shin protectors, helmet, gloves and carry bag

TBD

NSN.....

 Weight
 15 lb

 Cube
 10.8 cu ft

Size Fits a 5'11" 185 lb person

Riot Training Bag:

M36 RCA Disperser:

NOTE

For complete equipment data on the M36 RCA disperser, see TM 3-1365-204-12.

Performance:

Minimum temperature -30° F

Packaging:

 Quantity
 200

 Weight
 50 lb

 Cube
 3.2 in

 Packing quantity
 200 per set

Carry Pouch (for M36 and MK4 Dispersers):

NSN.....TBD

Part number ATIEAMKK
CAGEC 0N955
Packing quantity 200 per set

MK4 Inert RCA Disperser:

 CAGEC
 0N995

 Model
 MK4

 Weight
 0.5 lb

 Height
 6.25 in

 Cube
 0.02 cu ft

nitrogen (propellant)

M33A1 RCA Disperser:

NOTE

For complete equipment data on the M33A1 RCA disperser, see TM 3-1040-262-13&P.

assembly), air pressure assembly, gun and hose assembly, multi-jet

spray unit, and check valve assembly

 Part number
 E116-3-121

 CAGEC
 81361

 Model
 M33A1

 Height
 9.15 in.

 Diameter
 2.5 in.

 Circumference
 7.85 in.

Performance:

M37 RCA Disperser:

NOTE

For complete equipment data on the M37 RCA disperser, see TM 3-1040-287-12&P.

 Part number
 116-3-160

 CAGEC
 81361

 Model
 M37

 Weight (filled)
 8 lb

 Cube
 0.76 cu ft

Performance:

CR Solution RCA:

NOTE

For complete equipment data on the RCA refill kit, see TM 3-1040-287-12&P.

Used for	M33A1 and M37
NSN	1365-01-072-3688
Part number	EA-R-1136
CAGEC	81361
Model	MK46
Weight	5 lb
Cube	0.25 cu ft
Filler	3 gal CR solution
Refill kit	Transfer tube, transfer bottle, and funnel
Packing quantity	60 gal per set (20 3-gal bottles)

Ammunition:

NOTE

For complete equipment data on the ammunitions in the NLCS, see WP 0043 00.

OPERATOR MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD) THEORY OF OPERATION

GENERAL

The Non-Lethal Capability Set (NLCS) gives Army units conducting Stability and Support Operations(SASO) anywhere in the world a prepositioned single source from which to draw non-lethal items and ammunition to enhance force protection and reduce noncombatant casualties in accordance with the established rules of engagement (ROE) for that mission in support of the theater and national objectives. The Army NLCS enhances the commander's force options throughout the full range of peace and conflict operations. The set is configured to outfit 200 soldiers with NL munitions/weapons, protective equipment, and additional equipment that can augment the NL capabilities of a unit's support elements and assigned vehicles.

While the NLCS is designed to counter a variety of threats, its primarily focus is on counter personnel capabilities and area denial to unauthorized personnel and vehicles. NL items are ideally suited for use against noncombatants, whose presence or acts jeopardize a unit's ability to accomplish its' assigned mission. Any time the threat may not justify the use of deadly force options, NL components enable soldiers to engage these forces with the reasonable expectation of minimizing serious noncombatant casualties. NL confrontations however, can become lethal quickly and unexpectedly and should never be used without some kind of lethal force overwatch.

Set contents are divided into four distinct categories: Individual Protective Equipment, Weapons, Enhancement Devices, and Training Devices/Ammunition Allocations.

Individual Protective Equipment

Use personnel protective equipment such as ballistic or non-ballistic face and body shields and shin/knee guards for Civil Disturbance (CD) operations.

Weapons

Use munitions such as the 40mm NL point and area target cartridges on unit's assigned weapons for crowd control. Employ as necessary unique NL weapons such as shotguns, riot batons, Riot Control Agents (RCA) dispersers and restraining devices.

Enhancement Devices

Increase command and control capabilities with devices like bullhorns, voice-amplyifying devices for protective masks and high intensity light devices. Use other devices to augment access control or checkpoint operations.

Training Devices/Ammunition Allocation

Use training ammunition to conduct live fire qualification or familiarization for each NL ammunition type. Practice using non-munition weapons such as batons with face and body shields and batons with training suit and bag.

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CHAPTER 2

OPERATOR INSTRUCTIONS FOR NON-LETHAL CAPABILITY SET

OPERATOR MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD)

DESCRIPTION AND USE OF CONTROLS AND INDICATORS

NON-LETHAL CAPABILITY SET

The Non-Lethal Capability Set does not have controls and indicators. The ground mounted bullhorn is the only component in the set that has controls and indicators (see WP 0014 00).

END OF WORK PACKAGE

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OPERATOR MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD)

NON-BALLISTIC RIOT FACE SHIELD OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP:

Equipment ConditionsHelmet

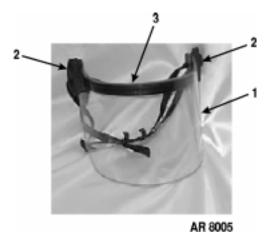
ASSEMBLY AND PREPARATION FOR USE

CAUTION

Shields are made from exceptionally strong and impact resistant polycarbonate plastic. Exposure to gasoline and similiar hydrocarbon solvents however will damage the plastic and eventually the shield will fail and crack. It is essential to follow proper handling and storage instructions for polycarbonate plastic and avoid any exposure to gasoline, diesel, solvents, or chemicals.

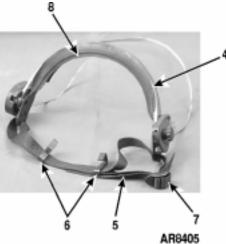
If an operational shield is damaged or contaminated, do not use for operations. Mark and turn in as defective.

- 1. Attach non-ballistic face shield to helmet.
- 2. The non-ballistic face shield consists of a movable polycarbonate protection visor (1) connected by two hinges (2) to a visor attachment assembly (3).



ASSEMBLY AND PREPARATION FOR USE - Continued

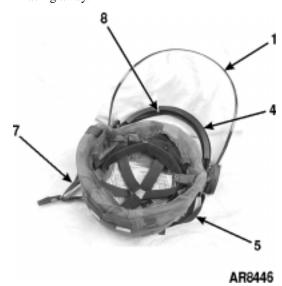
3. The visor attachment assembly has a thermoplastic attachment band (4) and webbed strap (5) with two J hooks (6) and an adjustment buckle (7) for securing it to the helmet.



NOTE

Make sure the visor is in the down position on the attachment band.

- 4. Using the adjustment buckle (7), loosen the webbed strap (5) to its fullest extent without detaching it from the attachment band (4).
- 5. Turn helmet upside down with brim facing away.



- 6. Orient the visor attachment assembly (4) so that the visor (1) is facing up and toward the front of the helmet and the webbed strap (5) is to the back of the helmet.
- 7. Engage front edge of helmet brim into the grooved lip (8) on the inside of the attachment band (4).

ASSEMBLY AND PREPARATION FOR USE - Continued

NOTE

Keep attachment band centered on the helmet brim for proper operation.

- 8. Slide two J hooks (6) so that they are 3 inches on either side of center of the strap (5).
- 9. Engage J hooks to the back underside edge of helmet.
- 10. Using adjustment buckle (7), tighten webbed strap (5) until secure.

NOTE

During tightening, keep the attachment band centered on the helmet brim.

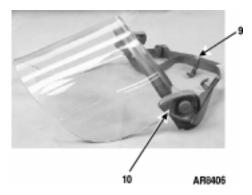
Ensure that the band seal lip mates smoothly with helmet brim and does not become folded or twisted along brim edge.

11. Fold and secure excess strap end using the J hook loops (9).

NOTE

Ensure that webbed strap lies neatly against helmet.

12. One hinge has a latch mechanism (10) that secures the visor in either the raised or lowered position. The latch mechanism can be installed on either the right or left hinge to accommodate right or left handed- personnel by unscrewing the latch hinge mechanism retaining screw knob and switching it with non-latch hinge mechanism. The tab on the latch mechanism must be pressed to release and move visor from the up or down position.



13. Raise and lower visor to test for proper attachment.

NOTE

The visor will not rub against exterior of helmet when raised or lowered with a properly centered and secured attachment band.

OPERATING PROCEDURE

WARNING

When visor is in down position, ensure forward edge of seal contacts visor to prevent seepage of liquids between visor and helmet which could harm wearer.

1. Press the tab on the latch hinge (10) with hand to release visor before raising or lowering it using the same hand. Latch hinge will engage and lock visor in either the up or down position.

NOTE

Visor latch mechanism is designed to release and allow visor to move if struck by a heavy solid object to minimize serious head and neck injuries to personnel

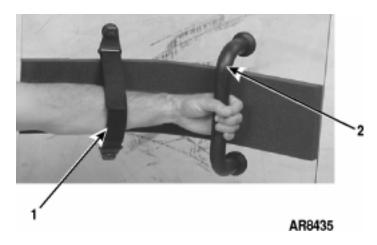
2. Place face shield in the down or deployed position for maximum protection during non-ballistic confrontations.

NON-BALLISTIC RIOT BODY SHIELD OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP:

None

OPERATING PROCEDURES



WARNING

Overtightening forearm strap can cut off blood circulation.

CAUTION

Shields are made from exceptionally strong and impact resistant polycarbonate plastic. Exposure to gasoline and similiar hydrocarbon solvents however will damage the plastic and eventually the shield will fail and crack. It is essential to follow proper handling and storage instructions for polycarbonate plastic and avoid any exposure to gasoline, diesel, solvents, or chemicals.

If an operational shield is damaged or contaminated, do not use for operations. Mark and turn in as defective.

- 1. Loosen adjustable forearm strap (1) by unfastening velcro.
- 2. Insert arm through forearm strap loop and grasp handle (2) firmly.
- 3. Adjust forearm strap (1) with velcro so that forearm supports side of shield opposite handle (2).
- 4. When used with the face shield and shin guards, the body shield provides the warfighter with maximum frontal protection when engaged in various hostile civil and crowd control situations.

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NON-BALLISTIC RIOT SHIN GUARDS OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP:

None

ASSEMBLY AND PREPARATION FOR USE

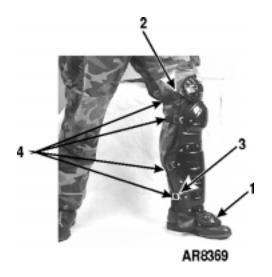
WARNING

Do not overtighten straps. Blood flow restriction could occur.

NOTE

The non-ballistic shin guards can be used on the right shin or the left shin.

- 1. Place the shin guard over the shin with the toe instep protector (1) over the foot.
- 2. Starting with the top knee strap (2) and moving down to the ankle strap (3), fasten the four straps (4) by wrapping each strap around the back of the leg and hooking the metal strap end (5) to the metal loop (6).





3. Check for normal flexibility at knee and ankle joints. Adjust straps (4), if necessary.

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BALLISTIC FACE SHIELD OPERATION UNDER USUAL CONDITIONS

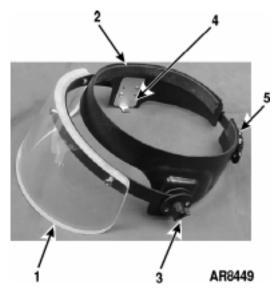
INITIAL SETUP:

Equipment Conditions

Helmet

ASSEMBLY AND PREPARATION FOR USE

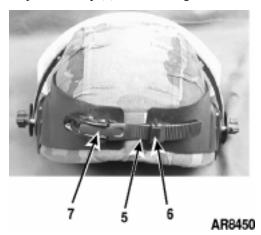
- 1. Attach ballistic face shield to helmet.
- 2. The ballistic face shield assembly consists of a thick bullet resistant acrylic shield (1) capable of providing the warfighter with Level IIIA protection against 9mm and .44 magnum pistol rounds connected to an adjustable helmet attachment band (2) by two movable hinges (3).



3. The helmet attachment band (2) has two hand adjustable friction hinges (3), two metal helmet retaining clips (4) one on each side and a fit-adjusting strap (5) across the back.

ASSEMBLY AND PREPARATION FOR USE - Continued

4. The fit-adjusting strap (5) has a size adjustment clip (6) and a locking tensioner clamp (7).



- 5. Lift up to release tensioner clamp (7).
- 6. Lift up to unfasten size adjustment clip (6) and extend strap (5) out to its maximum open length.
- 7. Slide face sheld assembly over helmet.

NOTE

Keep face shield and attachment band centered with front of helmet during installation.

8. Hook two metal retaining clips (4), one on each side, to side edges of helmet.



AR8451

- 9. Using the fit-adjusting strap (5), take slack out of helmet attachment band (2) until it lays against the helmet. Press the size adjustment clip (6) until strap is secure.
- 10. Press down and engage the tensioner clamp (7) until it locks.

ASSEMBLY AND PREPARATION FOR USE - Continued

NOTE

Check to make sure face shield assembly is centered and securely attached to helmet.

OPERATING PROCEDURES

- 1. Adjust the two friction tension hinges (3) by turning knobs clockwise just until the face shield will remain in the up position without holding yet still can be moved to the down or up positions.
- 2. When in the down position and used with the ballistic body shield and shin guards, the ballistic face shieled provides the warfighter with frontal ballistic protection when engaged in various hostile civil and crowd control situations.

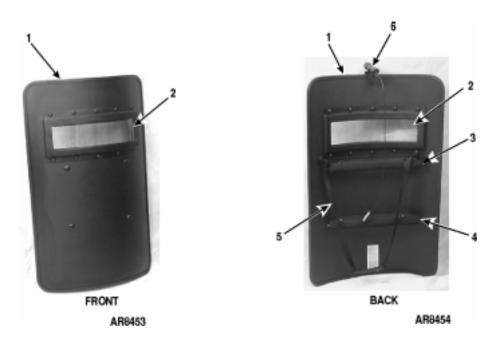
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BALLISTIC BODY SHIELD OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP:

Tools and Special Tools

Screwdriver, flat tip Wrench, hexagonal Pliers



- 1. The ballistic body shield (1) is made from a slightly curved 20 inch wide by 36 inch high (61 cm by 91 cm) bullet resistent material (Spectra Shield) painted anti-reflextive flat black capable of providing Level III protection against 9mm and .44 Magnum pistol rounds.
- 2. Towards the top of the shield is a 4 inch high by 16 inch wide (10 cm by 33 cm) viewport (2).
- 3. On the back beneath the viewport are two parallel padded bars: one upper bar (3) and one lower bar (4).
- 4. A neck and shoulder carrying strap (5) is attached to the ends of the upper bar.

ASSEMBLY AND PREPARATION FOR USE

WARNING

Ensure bolts do not protrude more than 0.125 inches to prevent injury to personnel.

- 1. The Ballistic Body Shield components (handles (3) (4), carrying strap (5) and viewport (2) housing) are assembled and disassembled using nuts and bolts with a standard flat screwdriver and hexagonal wrench or pliers.
- 2. High intensity light (s) (6) can be mounted on shield as required in accordance with WP 0011 00.

OPERATING PROCEDURES



1. Place neck and shoulder carrying strap (5) over head.

NOTE

Depending upon the mission, the ballistic body shield can be held and supported with one or both hands.

- 2. If using one hand, grasp the upper padded bar (3) with non-fighting hand (hand without weapon, tear gas, etc) palm up, from beneath, wrapping thumb around front and fingers around back of bar.
- 3. Lift and support weight of shield using back of forearm and elbow.
- 4. Two hand operation requires the use of both hands at the same time, one on the upper bar (3) and one on the lower bar (4) to hold shield up so that viewport (2) is at eye level.

NOTE

Soldiers may be at a tactical disadvantage when using the Ballistic Body Shield if they are not properly trained.

- 5. Soldiers should practice carrying the body shield during team movement and while shooting a weapon.
- 6. Since using a body shield requires non-traditional shooting positions, soldiers should practice shooting in both stationary and moving positions while carrying a body shield.
- 7. Used with the ballistic face-shield and shin guards, the ballistic body shield provides the warfighter with frontal ballistic body protection when engaged in various civil and crowd control situations.

BALLISTIC SHIN GUARDS OPERATION UNDER USUAL CONDITIONS

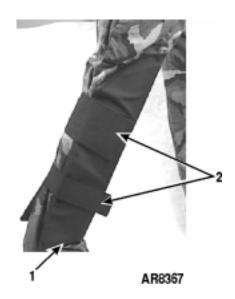
INITIAL SETUP:

None

ASSEMBLY AND PREPARATION FOR USE

- 1. Place the shin guard over the shin with the straight end (1) resting on the ankle and the two straps (2) on the inside of the leg.
- 2. Wrap each strap (2) around the back of the leg and attach to the velcro (3).





WARNING

Do not overtighten straps. Blood flow restriction could occur.

3. Check for normal flexibility, adjusting straps (2) if necessary.

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SHIELD LIGHT OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP:

Tools and Special Tools Hex wrench

Materials/Parts

Battery, lithium, DL123A; or Battery Pack, lithium, DL223A

ASSEMBLY AND PREPARATION FOR USE

NOTE

This item can be mounted on either the ballistic or non-ballistic body shield. More than one light kit may be used on the body shield, depending on the amount of light required.

- 1. Place mount (1) over top of body shield (2) and position in place.
- 2. Tighten the hex head screw (3) with hex wrench provided.
- 3. If the shield is more than 3/4-inch thick, move the switch and slider assembly (4) back by loosening the two screws (5) holding the ring cap (6), pushing it back and then retightening the screws.



ASSEMBLY AND PREPARATION FOR USE - Continued

CAUTION

When storing the light, remove batteries or unscrew the bezel far enough to prevent the lamp from turning on. The lamp can overheat and damage the light and surrounding materials.

- 4. Install batteries from front of mount.
 - a. Unscrew bezel (7) containing lamp/reflector (8) from flashlight housing (9).
 - b. Install two batteries or one battery pack (10) (with the + terminal facing out) in flashlight housing (9).
 - c. Screw bezel (7) with lamp/reflector (8) on flashlight housing (9).

CAUTION

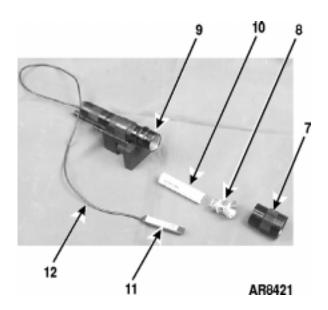
If you need to remove the rear cap assembly for any reason, hold the cable to prevent it from twisting and being damaged.

- 5. Position pressure switch (11).
 - a. Determine how the shield will be held.
 - b. Once the position is determined, clean the area with alcohol wipe.
 - c. Apply strip of Velcro loop material to cleaned area of shield.
 - d. Clean flat side of pressure switch (11) and attach the strip of Velcro hook material.

CAUTION

Cable can be snagged or damaged if it is not kept close to the shield body.

6. Place cable clamps on shield as needed to keep the cable (12) close to the shield body.



OPERATING PROCEDURES

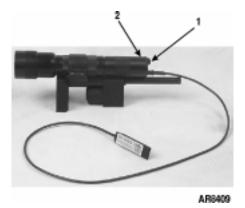
Flag Switch

1. To turn flashlight on, turn flag switch (1) on rear cap assembly (2) on by turning the switch clockwise.

NOTE

Light stays on until turned off.

2. To turn flashlight off, turn flag switch (1) on rear cap assembly (2) off by turning the switch counterclockwise.



Pressure Switch

1. Press pressure switch (1) to turn light on.

NOTE

Light stays on as long as pressure is applied to the pressure switch.

2. Release pressure switch (1) to turn light off.



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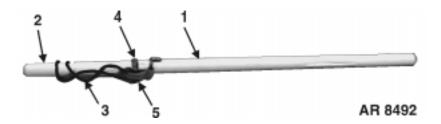
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WOODEN BATON OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP:

None

ASSEMBLY AND PREPARATION FOR USE



- 1. The wooden baton (1) has a handle (2), a wrist strap (3), a rubber stop washer (4) and a belt holder (5).
- 2. Attach belt holder (5) to belt using loop with velcro fastener.
- 3. With handle (2) end facing up, insert baton into belt holder ring (5).
- 4. Slide rubber stop washer (4) up or down on baton to adjust length where baton stops when placed in belt holder.

OPERATOR PROCEDURES

Insert hand through wrist strap loop (3) and grasp handle (2).

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PORTABLE BULLHORN OPERATION UNDER USUAL CONDITIONS

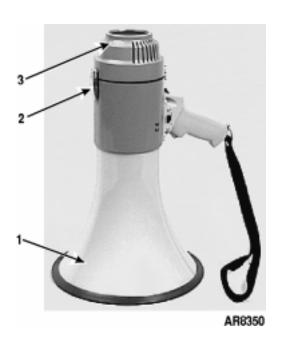
INITIAL SETUP:

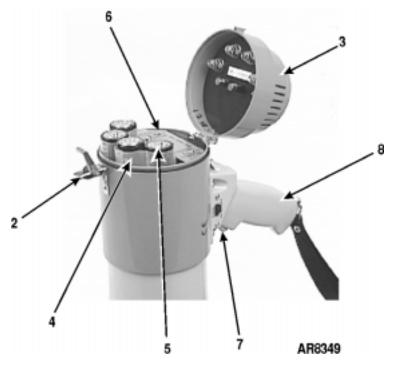
Materials/Parts

Batteries, type C, (item 2, WP 0042 00)

ASSEMBLY AND PREPARATION FOR USE

- 1. Insert the eight batteries into the bullhorn.
 - a. Place the bullhorn on the bell (1).
 - b. Unhook the clasp (2) to open the battery compartment cover (3).
 - c. Remove two plastic battery cases (4).
 - d. Insert four batteries (5) into each of the two battery cases (4), observing correct polarity (+ and -).
 - e. Insert the battery cases (4) with the batteries into the battery compartment (6), observing correct polarity (+ and -).
 - f. Close the battery compartment cover (3) and hook the clasp (2).
- 2. To ensure the batteries are charged, press in the switch (7) on the handle (8) and listen for a clicking sound.





OPERATING PROCEDURES

WARNING

When operating the portable bullhorn, use approved hearing protection to avoid hearing injury.

NOTE

Drained batteries do not give sufficient sound volume. Replace the batteries at regular intervals.

- 1. Slip hand through the carrying strap (1) and grab the handle (2).
- 2. Position the bullhorn so that the opening of the bell (3) is toward the crowd and the microphone mouthpiece (4) is toward the user's mouth.
- 3. To adjust the volume, turn the volume knob (5) on the back of the handle (2). Turning the knob (5) to the left minimizes the sound, turning the knob (5) to the right maximizes the sound.

WARNING

To avoid hearing injury, minimize the sound before speaking into the microphone.

4. Press in the switch (6) on the handle (2) while talking into the microphone mouthpiece (4).

WARNING

Use caution when using the siren. The sound for the siren is loud, even if the sound volume is turned low. Injury to hearing may occur.

5. To use the siren, push the siren ON-OFF button (7) on the left side of the handle (2) to ON. Push the button (7) to OFF to turn off the siren.



NOTE

Remove the batteries when the bullhorn is not in use for a long period of time.

GROUND MOUNTED BULLHORN OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP:

Materials/Parts

Battery, 12-volt, rechargeable Lead acid battery

Battery, AA, alkaline

INTRODUCTION

This work package includes the description and use of controls and indicators for the ground mounted bullhorn, assembly procedures for the wireless microphone and operating procedures for the wireless setup, the wireless microphone system, sound system and tripod

DESCRIPTION AND USE OF CONTROLS AND INDICATORS.

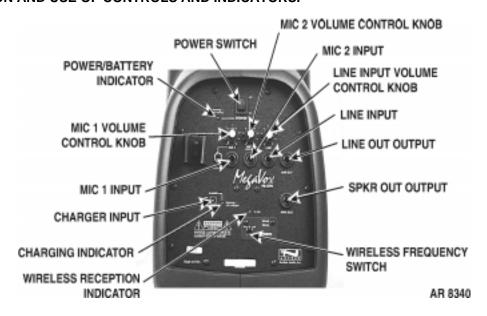


Table 1. Ground Mounted Bullhorn.

CONTROL OR INDICATOR	FUNCTION
Wireless Reception Indicator	Indicates the frequency of the receiver. A label on the control panel indicates the two frequencies of the system. The desired frequency is selected using the wireless frequency switch. (For PB-35W only.)
Charging Indicator	A flashing light indicates the battery is charged.
CHARGER Input	The RC-16 charger is plugged into the input to charge the battery. (Use RC-16 only; RC-16/220 for export.)

Table 1. Ground Mounted Bullhorn. - Continued

CONTROL OR INDICATOR	FUNCTION
MIC 1 Input	An unbalanced, low impedance microphone input. For use with the Mic-50 supplied with the unit (except PB-35W), or any mic with a 1/4" phone plug which does not require phantom power.
Mic 1 Volume Control Knob	Used to increase or decrease the volume for MIC 1.
Power/Battery Indicator	A flashing light indicates the battery is getting low.
POWER Switch	Used to turn the system off and on.
Mic 2 Volume Control Knob	Used to increase or decrease the volume for MIC 2.
MIC 2 Input	An unbalanced, low impedance microphone input (except for model PB-35W). For use with the Mic-50 supplied with the unit, or any mic with a 1/4" phone plug which does not require phantom power.
Line Input Volume Control Knob	Used to increase or decrease the volume for LINE Input.
LINE Input	Used for playback of a tap player, musical instrument or similar source. It can be used simultaneously with the mic inputs for a composite output.
LINE OUT Output	A composite of all the inputs. Used to record presentations, or to connect other powered sound systems to the bullhorn for larger crowd coverage.
SPKR OUT Output	Used to drive Anchor's model P-351 companion speaker (in addition to the bullhorn's built-in speakers) for greater output.
Wireless Frequency Switch	Used to set the system to the desired channel (F1 or F2). (For PB-35W only.)

ASSEMBLY AND PREPARATION FOR USE

Wireless Microphone

CAUTION

The transmitter power switch must be in the OFF position when inserting battery.

Insert the battery into the microphone.

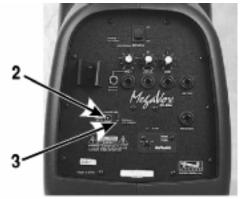
- a. Ensure transmitter power switch is in OFF position (1).
- b. Unscrew the handle (2) counterclockwise.
- c. Snap the AA battery (3) into the battery compartment (4), observing correct polarity (+ and -).
- d. Screw the handle (2) clockwise onto the microphone until full seated.



Charger

- 1. Plug the charger (1) into an AC outlet and into the charger input (2) of the bullhorn. The charging indicator (3) will light, indicating the battery is being charged.
- 2. When the battery is charged (approximately 8 hours), the charging indicator (3) will flash, indicating that the charger has switched to the maintenance charge rate. The charger (1) may be left plugged in to maintain a full charge without damaging the battery.





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OPERATING PROCEDURES

Wireless System Setup

NOTE

The service time per charge will vary depending on the volume level, type of program usage and whether a companion speaker is used with the system. Medium volume is 8 to 12 hours; full volume is 3 to 6 hours.

An automatic battery protection circuit turns the unit off when the battery approaches its 'critical discharge point' to prevent damage to the battery.

1. Set the frequency of the receiver by setting the wireless frequency switch (1) to either of the two channels, F1 or F2.



Wireless System Setup - Continued

NOTE

If there are on-going interference problems with the wireless system, the selected frequency may be incompatible with other RF systems in the area. Try the other channel.

During use, ensure the transmitter is set to the same frequency as the receiver (F1 or F2).

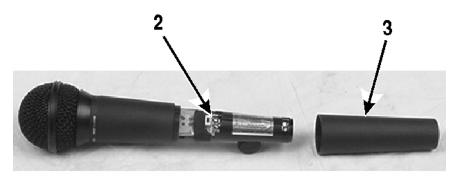
Ensure the battery for the handheld transmitter (wireless microphone) is charged. If battery needs replacing, see Assembly and Preparation for Use, Wireless Microphone in this work package.

- 2. Set the transmitter frequency switch (2).
 - a. Unscrew handle (3) of wireless microphone.
 - b. Set the frequency switch (2) inside the battery compartment to match the frequency of the receiver (F1 or F2).

CAUTION

Do not overtighten the handle of wireless microphone.

c. Replace the handle (3), but do not overtighten.



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Wireless Microphone System Operation

WARNING

Harmful feedback may occur when walking in front of a sound system or speaker with a wireless microphone. Always point microphone away from speakers.

- 1. Unplug any microphone from the Mic 2 input (1).
- 2. Set the bullhorn's Mic 2/Wireless volume control (2) to minimum.
- 3. Turn the bullhorn's sound system power switch (3) to ON.
- 4. Set the transmitter power switch (4) on the microphone to ON.

NOTE

The sound system's wireless reception indicator will be lit to indicate that the wireless signal (RF) is being transmitted and received.

- 5. Ensure wireless signal (5) is being transmitted.
- 6. Adjust the Mic 2/Wireless volume control (2) to desired volume.



Sound System

WARNING

Feedback may be hazardous to hearing and can damage equipment. Always make sure volume controls are a minimum before turning on unit. If feedback occurs, immediately reduce the volume.

NOTE

These procedures apply when using a wired microphone or audio source.

- 1. Set all input level controls to minimum before turning on the power.
- 2. Plug a microphone into one of the Mic input jacks, or connect an audio source to the line input.

Sound System - Continued

NOTE

If the battery indicator begins flashing, the battery is low and the unit will shut off in 15 to 30 minutes. If the battery indicator flashes or does not light when power is turned on, the battery must be charged (see Assembly and Preparation for Use, Charger in this work package..

- 3. Turn power ON (red indicator next to switch will light).
- 4. Adjust the level control adjacent to the input used to desired volume level.

Tripod

1. Loosen leg fitting handknob (1).



2. Turn tripod upside down and spread out legs enough to start sliding the leg fitting (2).



- 3. Turn tripod upright and slide leg fitting (2) to adjust diameter of leg spread. Tighten leg fitting handknob (1).
- 4. Loosen handknob (3) on telescoping collar (4) and raise center tube (5) 6-10 inches.

Tripod - Continued

CAUTION

Only attach bullhorn when stand is in a fully upright position (all legs on the floor).

Do not drag the stand while the bullhorn is attached. The fittings could break and cause damage to the stand.

Ensure the telescoping collar is securely locked when the bullhorn is attached.

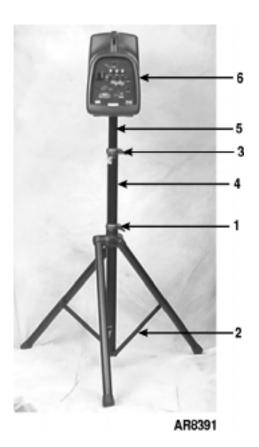
Do not exceed 110 pounds (50 kg) on tripod or tripod might collapse.

5. Attach bullhorn (6) to tripod by carefully sliding the bottom center of the bullhorn onto the telescoping collar (4).

CAUTION

Always release the collar with caution and stand clear of load.

- 6. Raise tripod to the desired height using handknob (3). Tighten handknob.
- 7. To lower bullhorn height, slowly loosen handknob (3).



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AUDIO FREQUENCY AMPLIFIER OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP:

Materials/Parts

Battery, 9-volt, alkaline (item 5, 0042 00)

References

TM 3-4240-340-10

Equipment Conditions

M40 Mask (TM 3-4240-340-10)

ASSEMBLY AND PREPARATION FOR USE

1. Insert the battery into the amplifier.

NOTE

The battery lid knobs do not have to be completely removed for the battery lid to separate from the amplifier. Loosening the knobs rather than removing them will ensure the knobs do not get lost.

- Loosen, do not remove, the two battery lid knobs (1) counterclockwise until the battery lid (2) separates from the amplifier.
- Connect the battery (3) to the terminals and place in the battery compartment (4), observing correct polarity (+ and -).
- Replace the battery lid (2) by turning the two knobs (1) clockwise until finger tight.
- To ensure the battery is charged, gently tap on the microphone (5) and listen for a clicking sound.





ASSEMBLY AND PREPARATION FOR USE - Continued

NOTE

The M40 mask should be put on before attaching the amplifier. See TM 3-4240-340-10 for information on the M40 mask.

- 3. Attach the amplifier to the M40 mask.
 - a. Position the amplifier in front of the mask (6) with the microphone (5) facing outward and the battery comparament (4) toward the ground.
 - b. Holding the amplifier in one hand, use the other hand to turn the ring (7) clockwise onto the front voicemitter (8) on the mask (6) until fully seated.





OPERATING PROCEDURES

To turn on the amplifier, press the speaker button (1) while talking into the amplifier.



INDIVIDUAL HIGH INTENSITY LIGHT OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP:

Materials/Parts

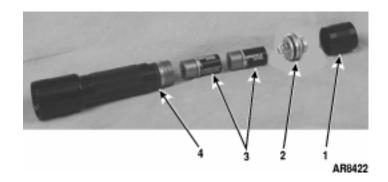
Battery, lithium, DL1 23A or Battery Pack, lithium, DL223A Pouch

ASSEMBLY AND PREPARATION FOR USE

CAUTION

When storing the light, remove batteries or unscrew the tail cap far enough to prevent the lamp from turning on. The lamp can overheat and damage the light and surrounding materials.

- 1. Insert batteries into the light.
 - a. Unscrew tail cap (1) which holds tail cap button contact (2)
 - b. Insert batteries (3) or battery pack, plus end first, into housing (4) and replace contact (2) and tail cap (1).



OPERATING PROCEDURES

1. To turn light on momentarily, press on tail cap button (1).

NOTE

Light stays on as long as pressure is applied.

2. To turn light on for continuous light, rotate tail cap (2) clockwise; to turn it off, rotate tail cap (2) counterclockwise.



NOTE

Pouch is available to carry light.

HIGH INTENSITY LIGHT WITH ACCESSORY KIT OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP:

None

ASSEMBLY AND PREPARATION FOR USE

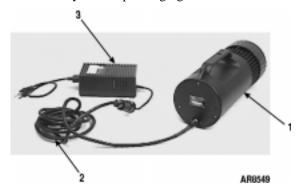
1. To attach filter (1):

With filter lip facing out, screw filter securely over the lens (2).



2. To use with external power source:

Connect light (1) to power source (e.g, vehicle) with supplied 10-foot power cord (2). The AC/DC converter (3) can be used to supply the unit for charging the internal battery or for operating light.



OPERATING PROCEDURES

WARNING

Do not touch lens when light is on. Skin burns may result.

Do not point light directly at face of persons closer than 50 feet. Serious eye damage could occur.

Do not shine light at driver of oncoming vehicle closer than several hundred yards from light. Temporary light blindness could occur and cause accident with vehicle.

Turn off unit when adding or removing accessory filter. Burns may occur.

Do not operate in explosive environment. Battery may vent and release flammable hydrogen gas. Charge battery in well-ventilated room or open air.

1. To turn on, press ON/OFF button (1). Light will be in high-power mode.

NOTE

If beam does not come on and stay on, wait 5 seconds and try again. If ON button is depressed before the 5-second delay, the light will not start.

- 2. To turn off, quickly press and release button (1).
- 3. To focus, turn focus ring (2) clockwise to tighten beam; counterclockwise to widen beam.
- 4. To put in battery saver mode, press and hold button (1) until beam changes noticeably.



DISPOSABLE RESTRAINT SYSTEM (DRS) OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP:

None

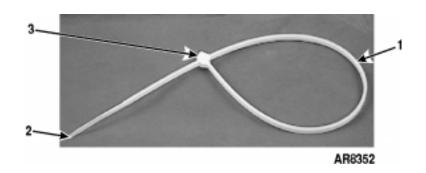
OPERATING PROCEDURES

1. Place the band (1) around the desired object (e.g., subject's wrists or ankles, weapons).

NOTE

Once the smooth end of the band is inserted into the locking end of the band, the smooth end can't be removed. The bands are not reusable.

- 2. Insert the smooth end of the band (2) into the locking end of the band (3).
- 3. Pull on the smooth end of the band (2) until the object is secure.





4. Use a cutting tool (4) to remove the band.

NOTE

Several bands can used together if needed (e.g., to form handcuffs).



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CALTROPS OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP:

Materials/Parts

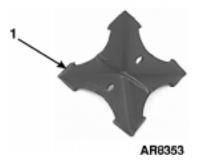
Cord, rope or wire (item 7 or 8, 0042 00)

OPERATING PROCEDURES

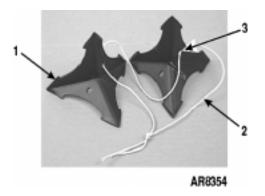
WARNING

The caltrops has sharp points. To avoid injury, handle carefully.

1. Place, toss or throw the caltrops (1) in desired location (e.g., roadway or walkway).



- 2. If connecting more than one caltrops (1) together:
 - a. Insert a cord, wire or rope (2) through one of the caltrops holes (3).
 - b. Connect the desired number of caltrops (1).
 - c. Tie the ends of the cord, wire or rope (2) together.
 - d. Place, toss or throw the string of caltrops (1) in desired location.



12 GAUGE SHOTGUN LIGHT OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP:

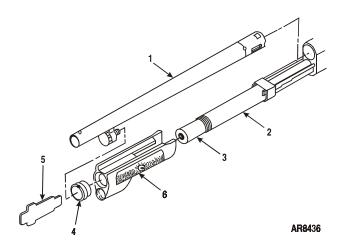
Tools and Special Tools

Installation tool

Materials/Parts

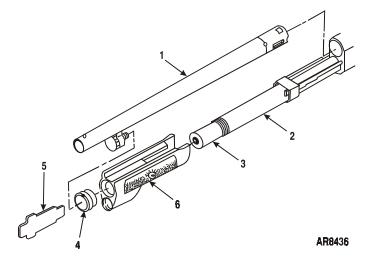
Battery, lithium, 3-volt Alcohol wipe

ASSEMBLY AND PREPARATION FOR USE



- 1. Install light fore-end assembly (H22 Housing) (6).
 - a. Put the shotgun Safety on safe.
 - b. Open the action and ensure no shells remain in the chamber or the magazine.
 - c. Close the action and remove the barrel (1).
 - d. Remove the fore-end tube assembly (2) from the magazine tube (3) of shotgun.
 - e. Unscrew and remove the fore-end tube nut (4) from housing (6) using the installation tool (5) supplied in the kit.

ASSEMBLY AND PREPARATION FOR USE - Continued



- f. Remove the wooden fore-end by pulling straight off the fore-end tube.
- g. Replace wooden fore-end by sliding the H22 housing (6) on to the fore-end tube assembly (2).
- h. Reinstall the fore-end tube nut (4) using the installation tool (5).
- i. Install the fore-end tube assembly (2) on the receiver.
- j. Reassemble barrel and tighten firmly with magazine cap.

WARNING

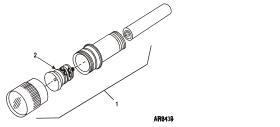
Lithium batteries can explode or cause burns if disassembled, shorted, recharged or exposed to fire or high temperatures. Handle with care.

CAUTION

When the bezel is removed from the lamp housing, the lamp can fall out. Handle with care.

ASSEMBLY AND PREPARATION FOR USE - Continued

2. Install battery.

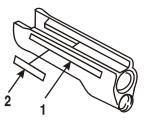




- a. Install the battery inside L60 Lamp Module (1) with the + terminal toward reflector bezel assembly.
- b. Turn the lamp module clockwise in to the H22 housing (3) until fully seated..
- 3. Install Switch Blocker.

NOTE

The switch blocker will disable an area of the pressure switch so user can rest hand without turning on light.



AR8438

- a. Clean portion of pressure switch (1) to be disabled using alcohol wipe from kit.
- b. Remove backing from switch blocker (2) and press switch blocker onto the pressure switch (1).

OPERATING PROCEDURES

To turn on the high intensity light, apply finger pressure to the pressure switch (1) on the side of the H22 housing (2).



POUCHES OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP:

None

ASSEMBLY AND PREPARATION FOR USE

12 Gauge Utility Pouch (25 Round)

- 1. To attach the pouch to a belt, use the two black clips (1) on the back of the pouch.
- 2. To open and close the pouch, use the black plasic buckle (2) on the front of the pouch.





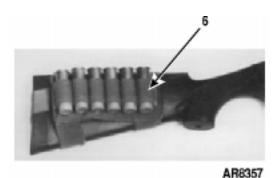


AR8361

12 Gauge Buttcuff Carrier (6 Round)

- 1. To attach the buttcuff carrier to the shotgun stock (butt), slide the buttcuff over the barrel and down the stock until buttcuff is secure. Fit circular strap (3) and secure the carrier to the weapon stock using the two velcro straps (4, 5).
- 2. To use the carrier, slide the rounds into the holders (6).





ASSEMBLY AND PREPARATION FOR USE - Continued Diversionary/Rubber Ball or Flash Grenade Pouch

- 1. To attach the pouch,
 - a. Use the velcro strap (7) to secure the pouch to the belt.
 - b. Use the buckle straps (8) to secure the pouch to the thigh.
- 2. To open and close the grenade pockets, use the velcro flaps (9).







ARR359

40mm Carrying Pouch

- 1. To attach the pouch to a belt, use the velcro straps (10) on the back of the pouch.
- 2. To open and close the pouch, use the velcro flap (11) on the front of the pouch.





RIOT TRAINING SUIT OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP:

Personnel Required

Two

ASSEMBLY AND PREPARATION FOR USE

WARNING

To avoid injury, all strap and tie connections on the suit must be secured prior to use.

NOTE

Avoid twisting the velcro straps when connecting components. Tighten velcro straps on all equipment for a snug fit.

1. Remove the suit and the accessories from the carrying bag.



- 2. Put on the thigh (1) and shin (2) protectors.
- 3. Put on the chest and back protector (3). To secure the chest and back protector, adjust the velro over the shoulder for height and the velcro straps on the sides for width.
- 4. Put on the groin and buttock protector (4).
- 5. Put on the forearm protectors (5).

ASSEMBLY AND PREPARATION FOR USE - Continued



NOTE

Putting the chin in the helmet first makes it easier to put on the helmet.

- 6. Put on the helmet (6). To secure the helmet, adjust the cord on the top and the velcro on the back (7).
- 7. Put on the gloves (8).
- 8. Have another person check all the connections on the suit before using.

RIOT TRAINING BAG OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP:

None

OPERATING PROCEDURES

NOTE

The riot training bag can be held by the right hand or the left hand. For use with the left hand, turn the riot training bag upside down from picture shown.

To hold the bag, insert the desired hand through the bag strap (1) and grab the handle (2). The strap (1) should rest against the bent elbow (3).



OPERATOR MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD) OPERATION UNDER UNUSUAL CONDITIONS

Not applicable.

CHAPTER 3

TROUBLESHOOTING PROCEDURES FOR NON-LETHAL CAPABILITY SET

TROUBLESHOOTING INTRODUCTION

TROUBLESHOOTING PROCEDURES

The troubleshooting work package (WP 0026 00) contains a table listing the malfunctions, tests or inspections, and corrective action required to return the equipment to normal operation. Perform the steps in the order they appear in the tables.

The work package is headed by an initial setup. This setup outlines what is needed as well as certain conditions which must be met before starting the task. DON'T START A TASK UNTIL:

You understand the task.

You understand what you are to do.

You understand what is needed to do the work.

You have the things you need.

This manual cannot list all malfunctions that may occur, or all tests or inspections and corrective actions. If a malfunction is not listed or is not corrected by listed corrective actions, notify your supervisor or unit maintenance.

NLCS TROUBLESHOOTING PROCEDURES

INITIAL SETUP:

Materials/Parts

Batteries:

3 volt Lithium (6)

AA (1)

12 Volt (1)

C, dry cell (8)

NON-LETHAL CAPABILITY SET

Table 1. Troubleshooting Procedures for Non-Lethal Capability Set.

	•	
MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
LIGHT FOR BODY SHIELDS LIGHT DOES NOT LIGHT	1. Check power switch.	1. Turn power switch ON. If light does not work, go to step 2.
	2. Check that batteries are properly installed and working.	1. If necessary, replace batteries (see WP 0011 00). If light does not work, go to step 3.
	3. Check bulb.	1. If bulb is burned out or damaged, replace lamp (see WP 0029 00).
		2. If light does not work, item is unserviceable.
PORTABLE BULL HORN SIREN/SPEAKER DOES NOT WORK	Check power switch and volume.	1. Turn power switch on. Adjust volume. If bull horn does not work, go to step 2.
	2. Check that batteries are properly installed and working.	1. If necessary, replace batteries (see WP 0013 00). If bull horn does not work, item is unserviceable.
	LIGHT FOR BODY SHIELDS LIGHT DOES NOT LIGHT PORTABLE BULL HORN SIREN/SPEAKER DOES NOT	LIGHT FOR BODY SHIELDS LIGHT DOES NOT LIGHT 2. Check that batteries are properly installed and working. 3. Check bulb. PORTABLE BULL HORN SIREN/SPEAKER DOES NOT WORK 1. Check power switch. 2. Check that batteries are properly

Table 1. Troubleshooting Procedures for Non-Lethal Capability Set.

	MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
3.	GROUND MOUNTED BULL HORN WIRELESS MICRO- PHONE DOES NOT WORK	 Check power switch. Check that batteries are properly installed and working. 	 Turn power switch ON. If GMBH wireless microphone does not work, go to step 2. If necessary, replace batteries (see WP 0014 00). If GMBH wireless microphone does not work, item is unserviceable.
4.	AUDIO FREQUENCY AMPLI- FICATION SYSTEM NOT WORKING	Check that battery is properly installed and working.	1. If necessary, replace battery (see WP 0015 00). If amplification system does not work, item is unserviceable.
5.	INDIVIDUAL HIGH INTEN- SITY LIGHT DOES NOT LIGHT	1. Check power switch.	1. Turn power switch ON. If light does not work, go to step 2.
LI	Lioiti	2. Check that batteries are properly installed and working.	1. If necessary, replace batteries (see WP 0017 00). If light does not work, go to step 3.
		3. Check bulb.	1. If bulb is damaged or burned out, replace lamp (see WP 0029 00).
			2. If light does not work, item is unserviceable.
6.	HIGH INTENSITY LIGHT BEAM DOES NOT APPEAR	1. Check power switch.	1. Wait 5 seconds for starting circuit to reset, then press and release ON button again.
		2. Charge battery.	1. If operating from a vehicle, be sure that engine is running.
			2. If light does not stop flashing after battery is charged, replace battery.
		3. Check lamp.	1. If bulb is damaged or burned out, item is unserviceable.

Table 1. Troubleshooting Procedures for Non-Lethal Capability Set.

	MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION	
7.	HIGH INTENSITY LIGHT FOR 12-GAUGE SHOTGUN DOES NOT LIGHT	1. Check power switch.	1. Turn power switch ON. If light does not appear, go to step 2.	
		2. Check that batteries are properly installed and working.	1. If necessary, replace batteries (see WP 0020 00). If light does not work, go to step 3.	
		3. Check lamp assembly.	1. If bulb is damaged or burned out, replace lamp assembly (see WP 0029 00).	
			2. If light does not work, item is unserviceable.	
8.	POUCH HAS LOOSE ATTACH- MENT	Close Velcro strapping and press to secure closure and contact.	1. If Velcro does not hold, with fingers, remove any foreign matter which may be stuck in the Velcro. If closure does not hold, item is unserviceable.	
9.	TRAINING EQUIPMENT VEL- CRO NOT HOLDING TOGETHER	1. Attach Velcro strip to other strip and apply hand pressure to hold.	1. If Velcro does not hold, with fingers, remove any foreign matter which may be stuck in the Velcro. If closure does not hold, item is unserviceable.	

CHAPTER 4

OPERATOR MAINTENANCE INSTRUCTIONS FOR NON-LETHAL CAPABILITY SET

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) INTRODUCTION

INITIAL SETUP:

References

DA PAM 738-750

GENERAL

Preventive maintenance is the systematic care, servicing and inspection of equipment to prevent occurrence of trouble and to reduce down time. These checks and services help maintain the equipment in a combat serviceable and mission ready condition.

EXPLANATION OF COLUMNS IN THE PMCS TABLE

- 1. Item Number Column Numbers in this column are for reference. Item numbers appear in the order in which checks and services must be performed for the intervals listed.
- 2. Interval Column This column tells you when each check is to be performed in the procedure column.
- 3. Man-hour Column This column gives the man-hours required to complete all prescribed lubrication services.
- 4. Item To Be Checked or Serviced Column This column lists the item to be checked or serviced.
- 5. Procedure Column This column gives the procedure you must do to check or service the item listed in the Item To Be Checked or Serviced column to know if the equipment is ready or available for its intended mission or for operation. You must do the procedure at the time stated in the interval column.
- 6. Equipment Not Ready/Available If: Column Information in this column tells you what faults will keep your equipment from being capable of performing its primary mission. If applicable, following Equipment Not Ready/Available If: condition is a suggested remedy that will correct the discovered discrepancy. Follow standard operating procedures for maintaining the equipment or reporting equipment failure. Report any malfunctions or failures on DA Form 2404 or refer to DA PAM 738-750.

OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

INITIAL SETUP:

 References
 References - Continued

 WP 0011 00
 WP 0017 00

 WP 0013 00
 WP 0020 00

 WP 0014 00
 WP 0026 00

 WP 0015 00
 WP 0029 00

OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES FOR NLCS

Table 1. Operator PMCS for NLCS.

ITEM NO.	INTERVAL	MAN- HOUR	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1	Before		Non-Lethal Capability Set	Inspect components for debris or corrosion. Clean as needed (see WP 0029 00).	Components too corroded to function properly.
2	Before		Components in NLCS Requiring Lamp and/or Batteries	 Check to ensure components operate properly. Replace lamps for the light kit used on the body shields, the individual high intensity light, and the high intensity light used on the 12 gauge shotgun, as needed (see WP 0029 00). Replace/recharge batteries, as needed. (Refer to the "Assembly and Preparation for Use" section in the following referenced WPs.) Light kit for body shields, see WP 0011 00. Portable bullhorn, see WP 0013 00. Ground mounted bullhorn, see WP 0014 00. Cordless microphone for the ground mounted bullhorn, see WP 0014 00. 	Components do not operate properly.

OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES FOR NLCS - Continued

Table 1. Operator PMCS for NLCS - Continued.

ITEM NO.	INTERVAL	MAN- HOUR	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
2	Before		Components in NLCS Requiring Lamp and/or Bat- teries - Continued	 e. Audio frequency amplifier, see WP 0015 00. f. Individual high intensity light, see WP 0017 00. g. High intensity light kit for the 12 gauge shotgun, see WP 0020 00. 4. If components do not operate properly after lamp and/or battery replacement, refer to Troubleshooting Procedures (see WP 0026 00). 	
3	After		Non-Lethal Capability Set	See Item No. 1.	

CLEANING AND REPLACEMENT

INITIAL SETUP:

Materials/Parts

Alcohol (item ?, 0042 00)
Cleaning kit for ballistic face shield (item 8, 0042 00)
Cleaning kit for non-ballistic face shield (item 7, 0042 00)

Cleaner, glass (item ?, 0042 00)

Cleaner, safe for plastic (item?, 0042 00)

Materials/Parts - Continued

Cloth, cotton (item ?, 0042 00) Detergent, mild (item ?, 0042 00) Soap, mild (item ?, 0042 00) Sponge (item ?, 0042 00)

INTRODUCTION

This work package contains cleaning procedures for the components in the NLCS and replacement procedures for the P60 lamp used in the shield light, the individual high intensity light and the 12 gauge shotgun light.

CLEANING

CAUTION

Do not immerse any component in water.

- 1. Clean the following components using mild soap or detergent and a sponge. Air dry the component.
 - a. Pouches.
 - b. Riot training suit.
 - c. Riot training bag.

CAUTION

Do not dissassemble the components for cleaning. Clean only the outside.

- 2. Clean the following components using ONLY a damp cloth and then air drying.
 - a. Light kit for body shields.
 - b. Wooden baton.
 - c. Portable bullhorn.
 - d. Ground mounted bullhorn and accessories.
 - e. Audio frequency amplifier.
 - f. Individual high intensity light.

CLEANING - Continued

3. High intensity light.

CAUTION

Do not remove the heat sink or access internal electronic circuitry.

Do not clean if any item on the light is hot.

Do not use an industrial cleaner.

- a. Clean the light by rotating the focus ring and wiping out any debris. Air dry.
- b. Clean the carrying case using a soft cloth and a mild cleaner safe for plastic.
- c. Clean the lens and filter using a soft cloth and a glass cleaner or alcohol.
- 4. Non-ballistic and ballistic face shields, body shields and shin guards.

CAUTION

The non-ballistic face shield and body shield are made of polycarbonate plastic. Do not use solvents, abrasives or chemicals to clean. To avoid scratching the plastic, handle the shields with care.

Materials, subject to corrosion in oxygen, salt air, ultraviolet or any other atmospheric conditions likely to occur during service usage, should be protected against such elements to minimize the corrosion/degradation effect of the component. Any protective coating that will crack, chip or scale with age or extremes of atmospheric conditions should not be used.

- a. Clean using clean water and a clean cotton cloth.
- b. For slight scratching on the non-ballistic face shield or body shield, remove scratches using toothpaste and water. Wipe down with a cloth and water.

REPAIR OR REPLACEMENT

CAUTION

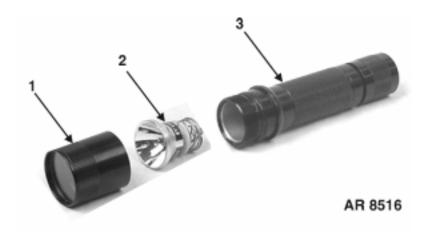
Do not use any lamp other than the 6 volt P60 lamp included as a component in the NLCS. If another volt is used, the lamp will burn out immediately. The 6 volt P60 lamp in the NLCS has a blue band with the words "6v...P60".

The lamp may fall out of the light and break when the bezel is being removed from or assembled onto the handle.

NOTE

The replacement procedures for the body shield light, the individual high intensity light and the shotgun light are the same. The individual high intensity light is shown in the illustration.

- 1. Unscrew the bezel (1) counterclockwise to remove.
- 2. Remove the lamp (2).
- 3. Insert the replacement lamp (2) in the bezel (1).
- 4. Assemble the bezel (1) onto the handle (3) by turning clockwise until fully seated.



CHAPTER 5

UNIT MAINTENANCE INSTRUCTIONS FOR NON-LETHAL CAPABILITY SET

UNIT MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD) SERVICE UPON RECEIPT

INITIAL SETUP:

References

DA PAM 738-750 WP 0032 00

SERVICE UPON RECEIPT OF MATERIEL

Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on SF 361, Transportation Discrepancy Report.

Check the equipment against the packing slip to see if the shipment is complete. Report all discrepancies in accordance with applicable service instructions (e.g., for Army instructions, see DA PAM 738-750).

Check to see whether the equipment has been modified.

INSTALLING INSTRUCTIONS

The Non-Lethal Capability Set does not have to be installed. The non-ballistic riot body shield and the ballistic body shield in the set need to be assembled upon receipt, see WP 0032 00.

UNIT PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

INITIAL SETUP:

References

WP 0027 00

GENERAL

See WP 0027 00 for the explanation of columns in the PMCS table.

UNIT PREVENTIVE MAINTENANCE CHECKS AND SERVICES FOR NLCS

Table 1. Unit PMCS for NLCS.

ITEM NO.	INTERVAL	MAN- HOUR	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1	Before and After		Non-Lethal Capability Set	Visually inventory and inspect components in set.	Components missing or damaged to extent that they can not be used.

UNIT MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD)

ASSEMBLY OF NON-BALLISTIC RIOT BODY SHIELD

INITIAL SETUP:

Tools and Special Tools

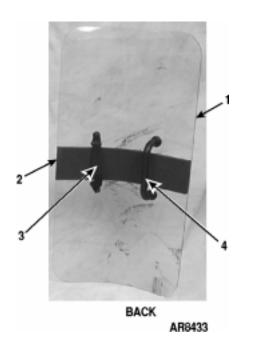
Screwdriver, 4 inch, cross tip, No. 2

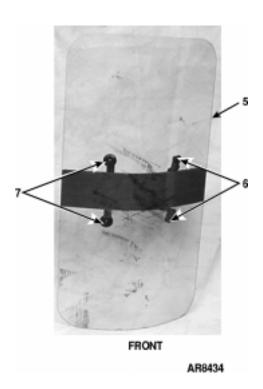
Materials/Parts

Cross head screw (larger) with rubber washer (2) for handle

Cross head screw (smaller) with rubber washer (2) for forearm strap

ASSEMBLY





- 1. The Non-Ballistic Body Shield (1) is made of a slightly curved 24 inches wide by 48 inches high (61 by 122 cm), 0.250 inch (6mm) thick piece of exceptionally strong polycarbonate plastic. On the back of the shield or side facing the warfighter are an arm cushion (2) and an adjustable forearm strap (3) and a rigid handle (4) that require assembly.
- 2. To assemble the forearm strap and handle, lean shield against a non-abrasive support with the front side (5) facing out.
- 3. The plastic shield has two sets of holes with two holes each. One hole in each set is above the arm cushion (2) with the other hole just beneath it below the arm cushion. One pair of holes (6) is for the forearm strap (3) and the second pair of holes (7) is for the handle (4).

ASSEMBLY - Continued

NOTE

Assembled shield can be turned 180 degrees for right or left hand use.

- 4. Assemble forearm strap (3):
 - a. Each end of the forearm strap (3) has a flat mounting plate, with a metal threaded hole on one side.
 - b. From the back side (1) of the shield using either hand, aline and hold the threaded hole on one end of the wrist strap with first hole (6) above the arm cushion (2) for the forearm strap (3) in the shield.

WARNING

Do not overtighten cross head screws. Doing so may weaken or crack plastic and seriously degrade shield performance.

- c. With the other hand, take a smaller supplied cross screw fitted with a rubber washer and from the front side (5) of the shield, screw the cross head screw clockwise into the forearm strap mounting plate threads (3) and hand tighten using a No.2 cross tip screwdriver.
- d. Repeat procedures b and c for attaching other end of forearm strap (3) to second hole (6) in shield for forearm strap.
- e. To disassemble, remove two cross head screws (6) using #2 cross tip screwdriver. Retain forearm strap (3) and two smaller cross head screws and washers with non-ballistic body shield for later reuse.
- 5. Assemble handle (4):
 - a. Each end of the rigid handle (4) has a flat matting surface with a metal threaded hole.
 - b. From the back side of the shield (1) using either hand, aline and hold the threaded holes on each end of the mating surfaces of the handle with a set of top and bottom holes (7) in the shield.

WARNING

Do not overtighten cross head screws. Doing so may weaken or crack plastic and seriously degrade shield performance.

- c. From the front of the shield (5) with the other hand, take each of the two larger supplied cross screws fitted with a rubber washer, screw the top and then the bottom cross head screw clockwise into the corresponding threaded holes (7) in the handle (4) hand tight using a No.2 cross tip screwdriver.
- d. To disassemble, remove cross head screws (7) using #2 cross tip screwdriver. Retain handle (4) and two larger cross head screws and washers for later reuse.

END OF WORK PACKAGE

CHAPTER 6

SUPPORTING INFORMATION FOR NON-LETHAL CAPABILITY SET

OPERATOR AND UNIT MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD) REFERENCES

SCOPE

This work package lists all Army regulations, forms, pamphlets, technical bulletins, and technical manuals referenced in this manual.

ARMY REGULATIONS

AR 75-1 Malfunctions Involving Ammunition and Explosives

AR 385-40 Accident Reporting and Records

FORMS

DA Form 285 Accident Report

DA Form 2028 Recommended Changes to Publications and Blank Forms

SF 361 Transportation Discrepancy Report

SF 368 Product Deficiency Report

PAMPHLETS

DA PAM 738-50 Functional Users Manual for The Army Maintenance Management System (TAMMS)

TECHNICAL BULLETINS

TB 9-1310-253-12 Operator Information for Cartridge 40mm: Non-Lethal, XM1006 (40mm Sponge Gre-

nade-Modified Government Version) for 40mm M203 Grenade Launcher

TB 9-1310-255-12 Operator Information for 40mm Multiple Rubber Ball (Stinger) Round, 40B And Foam

Rubber Multiple Baton Round, 40F

TECHNICAL MANUALS

TM 3-1040-262-13&P Operator's, Organizational and Direct Support Maintenance Manual (Including Repair

Parts And Special Tools List): Disperser, Riot Control Agent Portable: M33A1

TM 3-1040-287-12&P Operator's and Unit Maintenance Manual (Including Repair Parts and Special Tools

List): Disperser, Riot Control Agent, Mid-Sized: M37

TM 3-1365-204-12 Operator's and Organizational Maintenance Manual for Disperser and Riot Control

Agent, Manually Carried: CR, M36

TM 3-4240-340-10 Operator's Manual for Chemical-Biological Mask: Combat Vehicle, M42A1

TM 9-1005-303-14 Operator's, Organizational, Direct Support and General Support Maintenance Manual

(Including Repair Parts and Special Tools List): Shotgun, 12 Gage, Winchester Model

1200, Riot Type, 20-inch Barrel W/E

TECHNICAL MANUALS - Continued

TM 9-1300-251-20&P	Unit Maintenance Manual (Including Repair Parts and Special Tools List) for Artillery Ammunition for Guns, Howitzers, Mortars, Recoilless Rifles, and 40mm Grenade Launchers
TM 9-1300-251-34	Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tools List) for Artillery Ammunition for Guns, Howitzer, Mortars, Recoilless Rifles and 40mm Grenade Launchers
TM 9-1305-201-20&P	Organizational Maintenance Manual (Including Repair Parts and Special Tools List) for Small Arms Ammunition to 30mm Inclusive (FSC 1305): 12 Gauge Dummy Cartridge, XM1012 12 Gauge (Point) Round, 12 Gauge (Area) Round
TM 9-1330-200-12	Operator's and Organizational Maintenance Manual for Grenades
TM 9-1330-200-34	Direct Support and General Support Maintenance Manual for Grenades
TM 9-1330-220-12	Operator's and Unit Maintenance Manual for Grenades: Sting Ball Hand/12 Gauge Launched Grenade, M84 Diversionary/Flash Bang Stun Hand Grenade
TM 43-0001-29	Army Ammunition Data Sheets for Grenades
TM 43-0001-38	Army Ammunition Data Sheets for Demolition Materials

UNIT MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD)

MAINTENANCE ALLOCATION CHART (MAC) INTRODUCTION

INTRODUCTION

The Army Maintenance System MAC

This introduction provides a general explanation of all maintenance and repair functions authorized at various maintenance levels under the standard Army Maintenance System concept.

The MAC (WP 0035 00) designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component shall be consistent with the capacities and capabilities of the designated maintenance levels, which are shown on the MAC in column (4) as:

Unit - includes two subcolumns, C (operator/crew) and O (unit) maintenance.

Direct Support - includes an F subcolumn.

General Support - includes an H subcolumn.

Depot - includes a D subcolumn.

The tools and test equipment requirements (immediately following the MAC) list the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from the MAC.

The remarks (immediately following the tools and test equipment requirements) contain supplemental instructions and explanatory notes for a particular maintenance function.

Maintenance Functions

Maintenance functions are limited to and defined as follows:

- 1. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel). This includes scheduled inspection and gagings and evaluation of cannon tubes.
- 2. Test. To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards on a scheduled basis, i.e., load testing of lift devices and hydrostatic testing of pressure hoses.
- 3. Service. Operations required periodically to keep an item in proper operating condition; e.g., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases. This includes scheduled exercising and purging of recoil mechanisms.
- 4. Adjust. To maintain or regulate, within prescribed limits, by bringing into proper position, or by setting the operating characteristics to specified parameters.

INTRODUCTION - Continued

Maintenance Functions - Continued

- 5. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.
- 6. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments of test, measuring, and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.
- 7. Remove/Install. To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.
- 8. Replace. To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and assigned maintenance level is shown as the third position code of the Source, Maintenance and Recoverability (SMR) code.
- 9. Repair. The application of maintenance services, including fault location/troubleshooting, removal/installation, disassembly/assembly procedures, and maintenance actions to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

NOTE

The following definitions are applicable to the "repair" maintenance function:

Services - Inspect, test, service, adjust, align, calibrate, and/or replace.

Fault location/troubleshooting - The process of investigating and detecting the cause of equipment malfunctioning; the act of isolating a fault within a system or Unit Under Test (ET).

Disassembly/assembly - The step-by-step breakdown (taking apart) of a spare/functional group coded item to the level of its least component, that is assigned as SMR code for the level of maintenance under consideration (i.e., identified as maintenance significant).

Actions - Welding, grinding, riveting, straightening, facing, machining, and/or resurfacing.

- 10. Overhaul. That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.
- 11. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (e.g., hours/miles) considered in classifying Army equipment/components.

INTRODUCTION - Continued

Explanation of Columns in the MAC

Column (1) - Group Number. Column (1) lists FGC numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the Next Higher Assembly (NHA).

Column (2) - Component/Assembly. Column (2) contains the item names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

Column (3) - Maintenance Function. Column (3) lists the functions to be performed on the item listed in column (2). (For a detailed explanation of these functions refer to "Maintenance Functions" outlined above.)

Column (4) - Maintenance Level. Column (4) specifies each level of maintenance authorized to perform each function listed in column (3), by indicating work time required (expressed as manhours in whole hours or decimals) in the appropriate subcolumn. This work time figure represents the active time required to perform that maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function varies at different maintenance levels, appropriate work time figures are to be shown for each level. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), trouble-shooting/fault location time, and quality assurance time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the MAC. The symbol designations for the various maintenance levels are as follows:

- C Operator or crew maintenance
- O Unit maintenance
- F Direct support maintenance
- L Specialized repair activity (SRA)
- H General support maintenance
- D Depot maintenance

NOTE

The "L" maintenance level is not included in column (4) of the MAC. Functions to this level of maintenance are identified by a work time figure in the "H" column of column (4), and an associated reference code is used in the REMARKS column (6). This code is keyed to the remarks and the SRA complete repair application is explained there.

Column (5) - Tools and Equipment Reference Code. Column (5) specifies, by code, those common tool sets (not individual tools), common Test, Measurement and Diagnostic Equipment (TMDE), and special tools, special TMDE and special support equipment required to perform the designated function. Codes are keyed to the entries in the tools and test equipment table.

Column (6) - Remarks Code. When applicable, this column contains a letter code, in alphabetical order, which is keyed to the remarks table entries.

INTRODUCTION - Continued

Explanation of Columns in the Tools and Test Equipment Requirements

Column (1) - Tool or Test Equipment Reference Code. The tool or test equipment reference code correlates with a code used in column (5) of the MAC.

Column (2) - Maintenance Level. The lowest level of maintenance authorized to use the tool or test equipment.

Column (3) - Nomenclature. Name or identification of the tool or test equipment.

Column (4) - National Stock Number (NSN). The NSN of the tool or test equipment.

Column (5) - Tool Number. The manufacturer's part number, model number, or type number.

Explanation of Columns in the Remarks

Column (1) - Remarks Code. The code recorded in column (6) of the MAC.

Column (2) - Remarks. This column lists information pertinent to the maintenance function being performed as indicated in the MAC.

UNIT MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD)

MAINTENANCE ALLOCATION CHART (MAC)

MAINTENANCE ALLOCATION CHART FOR NLCS

Table 1. MAC for NLCS.

(1)	(2)	(3)	MA		(4) MAINTENANCE LEVEL			(5)	(6)
GROUP		MAINTENANCE	UN	IT	DIRECT SUPPORT	GENERAL SUPPORT	DEPOT	TOOLS AND EQUIPMENT	REMARKS
NUMBER	COMPONENT/ASSEMBLY	FUNCTION	C	0	F	Н	D	REF CODE	CODE
00	NON-LETHAL CAPABIL-	Inspect	X	X					
	ITY SET	Install		X					A
		Service	X						В
		Replace	X						С

TOOLS AND TEST EQUIPMENT REQUIREMENTS FOR NLCS

Table 2. Tools and Test Equipment for NLCS.

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE LEVEL	NOMENCLATURE	NATIONAL STOCK NUMBER	TOOL NUMBER
		N/A		

REMARKS FOR NLCS

Table 3. Remarks for NLCS.

REMARKS CODE	REMARKS
A	Assemble non-ballistic riot body shield and ballistic body shield upon receipt.
В	Service is cleaning components of the NLCS.
С	For NLCS components requiring lamps and/or batteries.

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OPERATOR AND UNIT MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD) INTRODUCTION

SCOPE

This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of Operator and Unit maintenance of the Nonlethal Capabilities Set. It authorizes the requisitioning, issue, and disposition of spares, repair parts, and special tools as indicated by the source, maintenance, and recoverability (SMR) codes.

GENERAL

In addition to the Introduction work package, this RPSTL is divided into the following work packages.

- 1. Repair Parts List Work Packages. Work packages containing lists of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. These work packages also include parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Sending units, brackets, filters, and bolts are listed with the component they mount on. Bulk materials are listed by item name in FIG. BULK at the end of the work packages. Repair parts kits are listed separately in their own functional group and work package. Repair parts for reparable special tools are also listed in a separate work package. Items listed are shown on the associated illustrations.
- 2. Special Tools List Work Packages. Work packages containing lists of special tools, special TMDE, and special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in the DESCRIPTION AND USABLE ON CODE (UOC) column). Tools that are components of common tool sets and/or Class VII are not listed.
- 3. Cross-Reference Indexes Work Packages. There are two cross-reference indexes work packages in this RPSTL: the National Stock Number (NSN) Index work package, and the Part Number (P/N) Index work package. The National Stock Number Index work package refers you to the figure and item number. The Part Number Index work package refers you to the figure and item number.

EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGES

ITEM NO. (Column (1)). Indicates the number used to identify items called out in the illustration.

SMR CODE (Column (2)). The SMR code containing supply/requisitioning information, maintenance level authorization criteria, and disposition instruction, as shown in the following breakout:

Source Code	Maintenance <u>Code</u>		Recoverability Code
XX	XX	<u>.</u>	X
1st two positions: How to get an item.	3rd position: Who can install, replace, or use the item.	4th position: Who can do complete repair* on the item.	5th position: Who determines disposition action on unserviceable items.

^{*}Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

Source Code. The source code tells you how you get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follow:

Source Code	Application/Explanation
PA PB PC PD PE PF	Stock items; use the applicable NSN to requisition/request items with these source codes. They are authorized to the level indicated by the code entered in the 3rd position of the SMR code. NOTE Items coded PC are subject to deterioration.
KD KF KB	Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance level indicated in the 3rd position of the SMR code. The complete kit must be requisitioned and applied.
MO-Made at unit/ AVUM level MF-Made at DS/ AVIM level MH-Made at GS level ML-Made at SRA MD-Made at depot	Items with these codes are not to be requisitioned/requested individually. They must be made from bulk material which is identified by the P/N in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the bulk material group work package of the RPSTL. If the item is authorized to you by the 3rd position code of the SMR code, but the source code indicates it is made at higher level, order the item from the higher level of maintenance.

EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGES - Continued

Source Code	Application/Explanation
AO-Assembled by unit/AVUM level AF-Assembled by DS/AVIM level AH-Assembled by GS level AL-Assembled by SRA AD-Assembled by depot	Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the 3rd position of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance.
XA	Do not requisition an "XA" coded item. Order the next higher assembly. (Refer to NOTE below.)
XB	If an item is not available from salvage, order it using the CAGEC and P/N.
XC	Installation drawings, diagrams, instruction sheets, field service drawings; identified by manufacturer's P/N.
XD	Item is not stocked. Order an XD-coded item through normal supply channels using the CAGEC and P/N given, if no NSN is available.

NOTE

Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes except for those items source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.

Maintenance Code. Maintenance codes tell you the level(s) of maintenance authorized to use and repair support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

Third Position. The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to the following levels of maintenance:

Maintenance Code	Application/Explanation
C -	Crew or operator maintenance done within unit/AVUM maintenance.
O -	Unit level/AVUM maintenance can remove, replace, and use the item.
F -	Direct support/AVIM maintenance can remove, replace, and use the item.
Н -	General support maintenance can remove, replace, and use the item.
L-	Specialized repair activity can remove, replace, and use the item.
D -	Depot can remove, replace, and use the item.

EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGES - Continued

Fourth Position. The maintenance code entered in the fourth position tells you whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (perform all authorized repair functions).

NOTE

Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.

Maintenance Code Application/Explanation

- O Unit/AVUM is the lowest level that can do complete repair of the item.
- F Direct support/AVIM is the lowest level that can do complete repair of the item.
- H General support is the lowest level that can do complete repair of the item.
- L Specialized repair activity is the lowest level that can do complete repair of the item.
- D Depot is the lowest level that can do complete repair of the item.
- Z Nonreparable. No repair is authorized.
- B No repair is authorized. No parts or special tools are authorized for maintenance of "B" coded item. However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

Recoverability Code. Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is shown in the fifth position of the SMR code as follows:

Recoverability

Code Application/Explanation

- Z Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the third position of the SMR code.
- O Reparable item. When uneconomically reparable, condemn and dispose of the item at the unit level.
- F Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support level.
- H Reparable item. When uneconomically repairable, condemn and dispose of the item at the general support level.
- D Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item are not authorized below depot level.
- L Reparable item. Condemnation and disposal not authorized below Specialized Repair Activity (SRA).
- A Item requires special handling or condemnation procedures because of specific reasons (such as precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.

EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGES - Continued

NSN (Column (3)). The NSN for the item is listed in this column.

CAGEC (Column (4)). The Commercial and Government Entity Code (CAGEC) is a five-digit code which is used to identify the manufacturer, distributor, or Government agency/activity that supplies the item.

PART NUMBER (Column (5)). Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When you use an NSN to requisition an item, the item you receive may have a different P/N from the number listed.

DESCRIPTION AND USABLE ON CODE (UOC) (Column (6)). This column includes the following information:

- 1. The federal item name, and when required a minimum description to identify the item.
- 2. P/Ns of bulk materials are referenced in this column in the line entry to be manufactured or fabricated.
- 3. Hardness Critical Item (HCI). A support item that provides the equipment with special protection from electromagnetic pulse (EMP) damage during a nuclear attack.
- 4. The statement END OF FIGURE appears just below the last item description in column (6) for a given figure in both the repair parts list and special tools list work packages.

QTY (Column (7)). The QTY (quantity per figure) column indicates the quantity of the item used in the breakout shown on the illustration/figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column instead of a quantity indicates that the quantity is variable and quantity may change from application to application.

EXPLANATION OF CROSS-REFERENCE INDEXES WORK PACKAGES FORMAT AND COLUMNS

1. National Stock Number (NSN) Index Work Package.

STOCK NUMBER Column. This column lists the NSN in the National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN.

<u>NSN</u>	When using this column to locate an item, ignore the first
(e.g., 5385- <u>01-574-1476</u>)	four digits of the NSN. However, the complete NSN should
NIIN	be used when ordering items by stock number.

FIG. Column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in the repair parts list and special tools list work packages.

ITEM Column. The item number identifies the item associated with the figure listed in the adjacent FIG. column. This item is also identified by the NSN listed on the same line.

EXPLANATION OF CROSS-REFERENCE INDEXES WORK PACKAGES FORMAT AND COLUMNS - Continued

2. Part Number (P/N) Index Work Package. P/Ns in this index are listed in ascending alphanumeric sequence (vertical arrangement of letter and number combinations which places the first letter or digit of each group in order "A" through "Z," followed by the numbers "0" through "9" and each following letter or digit in like order).

PART NUMBER Column. Indicates the P/N assigned to the item.

FIG. Column. This column lists the number of the figure where the item is identified/located in the repair parts list and special tools list work packages.

ITEM Column. The item number is the number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

SPECIAL INFORMATION

The UOC appears in the lower left corner of the Description Column heading. Usable on codes are shown as "UOC: ..." in the Description Column (justified left) on the first line under the applicable item/nomenclature. Uncoded items are applicable to all models. Identification of the UOCs used in the RPSTL are:

<u>Code</u> <u>Used On</u>

TBD TBD

HOW TO LOCATE REPAIR PARTS

1. When NSNs or P/Ns Are Not Known.

First. Using the table of contents, determine the assembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and lists are divided into the same groups.

Second. Find the figure covering the functional group or the subfunctional group to which the item belongs.

Third. Identify the item on the figure and note the number(s).

Fourth. Look in the repair parts list work packages for the figure and item numbers. The NSNs and part numbers are on the same line as the associated item numbers.

2. When NSN Is Known.

First. If you have the NSN, look in the STOCK NUMBER column of the NSN index work package. The NSN is arranged in NIIN sequence. Note the figure and item number next to the NSN.

Second. Turn to the figure and locate the item number. Verify that the item is the one you are looking for.

3. When P/N is Known.

First. If you have the P/N and not the NSN, look in the PART NUMBER column of the P/N index work package. Identify the figure and item number.

Second. Look up the item on the figure in the applicable repair parts list work package.

END OF WORK PACKAGE

UNIT MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD) REPAIR PARTS LIST

NOTE

Before proceeding with Repair Parts List, see Introduction to RPSTL (WP 0036 00).



FIGURE 1. (SHEET 1 OF 5)

END OF FIGURE

(1) ITEM	(2) SMR	(3)	(4)	(5) PART	(6) (7) DESCRIPTION AND USABLE ON
NO	CODE	NSN	CAGEC	NUMBER	CODES (UOC) QTY GROUP 00 FIGURE 1. (SHEET 1 OF 5)
1	PAOOO	8465-01-467-0721	01365	PD/CO-99-14	FACE SHIELD:
2	PAOOO	TBD	0N995	PMBS-9	BODY SHIELD:
3	PAOOO	8465-01-467-0740	01365	PD/CO-99-12	GUARD, SHIN:
3	PAOOO	8465-01-467-0744	01365	PD/CO-99-12	GUARD, SHIN:
3	PAOOO	8465-01-467-0750	01365	PD/CO-99-12	GUARD, SHIN:
4	PAOOO	8470-01-467-0754	01365	PD/CO-99-15	FACE SHIELD: 10
5	PAOOO	8470-01-467-0757	01365	PD/CO-99-17	BODY SHIELD:
6	TBD	TBD	0N995	PT1220	SHIN GUARD: Ballistic, Riot
6	TBD	TBD	0N995	PT1220	SHIN GUARD: Ballistic, Riot
6	TBD	TBD	0N995	PT1220	SHIN GUARD: Ballistic, Riot
7	TBD	TBD	0N995	SF6SL	SHIELD, LIGHT: For Ballistic



FIGURE 1. (SHEET 2)

(1) ITEM NO	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC) GROUP 00 FIGURE 1. (SHEET 2)	(7) QTY
8	TBD	TBD	0N995	MON2800	BATON, WOODEN:36 In. Lg. w/Grommet	200
9	TBD	TBD	0N995	AT1A2M	PORTABLE BULLHORN:	10
10	TBD	TBD	0N995	AAPPB35W1	BULLHORN, GROUND MOUNTED: Requires (1) 12V Rechargeable Lead Acid Battery (See Expendable & Durable Items List, Item 4) and comes with: STAND/ (TRIPOD) (0N995) AASS450, and MICROPHONE, wireless (0N995) AAPBWH10001 that requires (1) AA Alkaline Battery (See Expendable & Durable Items List, Item 3)	8
11	PAOZZ	5996-01-381-9012	61318	1000-3028	AMPLIFIER, AUDIO FREQUENCY: Individual Voice Amplification System Requires (1) 9V Alkaline Battery (See Expendable & Durable Items List, Item 5)	200
12	TBD	TBD	0N995	SF6P	INDIVIDUAL HIGH INTENSITY LIGHT: Requires (2) 3V Lithium Batteries (See Expendable & Durable Items List, Item 6)	15
13 14	TBD TBD	TBD TBD	0N995 0N995	ATIEATAVLFP6POD XENNCSUSA	BELT CARRY POUCH:	15 8
15	TBD	TBD	0N995	NIKFLEXCUFF	DISPOSABLE RESTRAINT SYSTEM (DRS): Forearm/ankle Cuffs (Single) W/Two Cutters	1000
16	TBD	TBD	0N995	ATIRSC3	CALTROP: Nesting Design for Storage, W/String Holes for Storage, 550 Cord (See Expendable & Durable List, Item 9), or Communication Wire (See Expendable & Durable, Item 10) END OF FIGURE	250

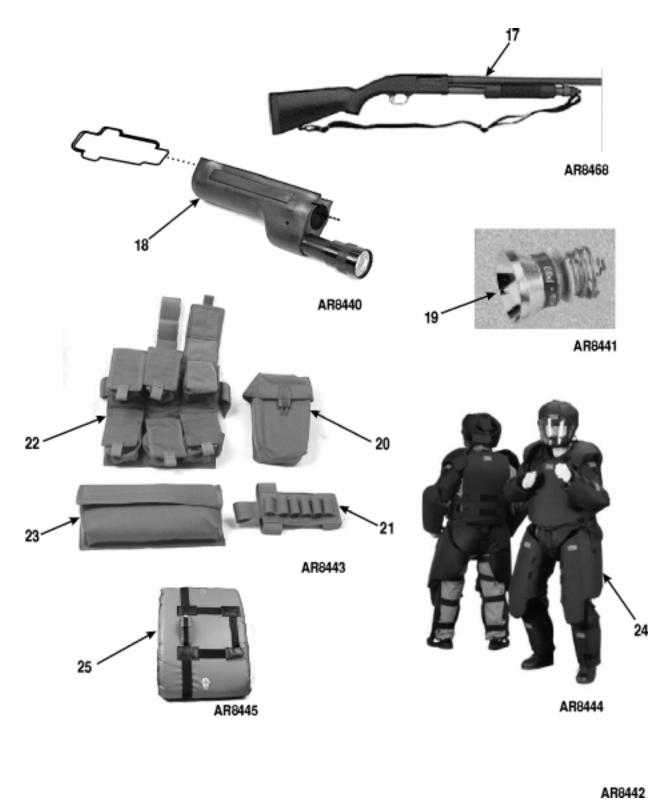


FIGURE 1. (SHEET 3)

(1) ITEM	(2) SMR	(3)	(4)	(5) PART	(6) DESCRIPTION AND USABLE ON	(7)
NO	CODE	NSN	CAGEC	NUMBER	CODES (UOC) GROUP 00 FIGURE 1. (SHEET 3)	QTY
17	TBD	1005-01-295-1832	41758	50518	SHOTGUN: 12 Gauge	50
18	TBD	TBD	0N995	SF622	12 GAUGE SHOTGUN LIGHT:w/Bracket and Installation Tool, Requires (2) 3V Lithium Batteries (See Expendable and Durable Items List, Item 6)	50
19	TBD	TBD	0N995	SFP60	LAMP: Blue Band, 6V, P60 Use With Items 7, 12, And 18	15
20	TBD	TBD	0N995	ATIEAUPMS	12 GAUGE UTILITY POUCH:(25 Round)	50
21	TBD	TBD	0N995	ATISSSCQTR	12 GAUGE BUTTCUFF CARRIER: (6 Round)	50
22	TBD	TBD	0N995	ATISASSDD60D	POUCH: for Diversionary/Rubber Ball or Flash Grenade	25
23	TBD	TBD	0N995	ATIEA40MM6	POUCH: 40MM	100
24	TBD	TBD	0N995	AAT1FS333	RIOT TRAINING SUIT Consisting of the Following: Chest and Back, Shoulders, Biceps, Forearms, Groin and Buttocks, Thighs, Shins, Helmet, Gloves and Carry Bag	4
25	TBD	TBD	0N995	MONUTB	RIOT TRAINING BAG:Punch/Strike Bag END OF FIGURE	10



FIGURE 1. (SHEET 4)

(1) ITEN	(2) // SMR	(3)	(4)	(5) PART	(6) DESCRIPTION AND USABLE ON	(7)
NO	CODE	NSN	CAGEC	NUMBER	CODES (UOC) GROUP 00 FIGURE 1. (SHEET 4)	QTY
26	TBD	1365-00-283-9046	81361	C116-6-271	DISPERSER AND RIOT CONTROL AGENT,MANUALLY CARRIED: M36	200
27	PAOZZ	TBD	0N995	ATIEAMKK	POUCH:for M36 and MK4 Disperser	200
28	TBD	1365-01-406-3275	0N995	MK-4 INERT TRAIN- ING UNIT	DISPERSER RIOT CONTROLAGENT MANUALLY CARRIED: MK4, Inert, Requires Pouch	200
29	TBD	1040-00-148-9824	81361	E116-3-121	DISPENSOR RIOT	4
30	TBD	1040-01-463-0157	81361	116-3-160	DISPERSER, RIOT CONTROLAGENT MANUALLY CARRIED: Midsized, M37	15
31		1365-01-072-3688	81361	EA-R-1136	RIOT CONTROL AGENT:CR Solution, 3-gallon, Requires Refill Kit Which Includes Transfer Tube, Transfer Bottle And Funnel (See Expendable And Durable Items List, Item 11) END OF FIGURE	20

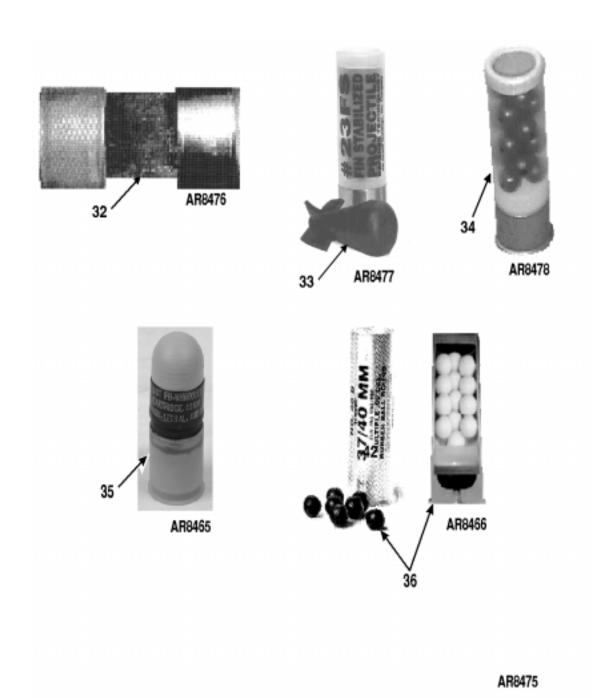


FIGURE 1. (SHEET 5)

(1) ITEM	(2) SMR	(3)	(4)	(5) PART	(6) DESCRIPTION AND USABLE ON	(7)
NO	CODE	NSN		CODES (UOC) GROUP 00	QTY	
32	TBD	1305-01-380-3255	80236	P040850C	DUMMY CARTRIDGE, 12 GAUGE: MK242, MOD 0, INERT USED FOR TRAINING	250
33	TBD	1305-01-470-2405	19200	12991637	CARTRIDGE, 12 GAGESHOTGUN, NON-LETHAL: XM1012 12 GAUGE (POINT) ROUND	3,000
34	TBD	1305-01-470-2139	19200	12982926	CARTRIDGE, 12 GAGESHOTGUN, NON-LETHAL: XM1013 12 GUAGE (AREA) ROUND,	3,000
35	TBD	1310-01-452-1190	19200	12977456	40MM MULTIPLERUBBER BALL (STINGER) ROUND: 401	2,400 B
36	TBD	1310-00-X96-8808	19200	12977305	CARTRIDGE, 40 MILLIMETER, NON-LETHAL: 40B, CROWD DIS- PERSAL ROUND (AREA) END OF FIGURE	2,400

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OPEATOR AND UNIT MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD)

NATIONAL STOCK NUMBER INDEX

NOTE

Before proceeding with National Stock Number Index, see Introduction to RPSTL (WP 0036 00).

STOCK NUMBER	FIG.	ITEM
1040-00-148-9824	1	29
1365-00-283-9046	1	26
1365-01-072-3688	1	31
1005-01-295-1832	1	17
1305-01-380-3255	1	32
5996-01-381-9012	1	11
1365-01-406-3275	1	28
1310-01-452-1190	1	35
1040-01-463-0157	1	30
8465-01-467-0721	1	1
8465-01-467-0740	1	3
8465-01-467-0744	1	3
8465-01-467-0750	1	3
8470-01-467-0754	1	4
8470-01-467-0757	1	5
1305-01-470-2139	1	34
1305-01-470-2405	1	33

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UNIT MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD) PART NUMBER INDEX

NOTE

Before proceeding with Part Number Index, see Introduction to RPSTL (WP 0036 00).

PART NUMBER	FIG.	ITEM
AAPPB35W1	1	10
AAT1FS333	1	24
AT1A2M	1	9
AT1EATAVLFP6POD	1	13
AT1ASSDD60D	1	22
AT1EAMKK	1	27
AT1EAUPMS	1	20
AT1EA40MM6	1	23
ATIRSC3	1	16
ATISSSCQTR	1	21
C116-6-271	1	26
EA-R-1136	1	31
E116-3-121	1	29
MK-4 INERT TRAINING UNIT	1	28
MONUTB	1	25
MON2800	1	8
NIKFLEXCUFF	1	15
PD/CO-99-12	1	3
PD/CO-99-12	1	3
PD/CO-99-12	1	3
PD/CO-99-14	1	1
PD/CO-99-15	1	4
PD/CO-99-17	1	5
PO4085OC	1	32
SF6P	1	12
SF6P60	1	19
SF6SL	1	7
SF622	1	18
XENNCCUSA	1	14
116-3-160	1	30
1000-3028	1	11
50518	1	17
12982926	1	34

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OPERATOR MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD) COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LISTS

Not applicable.

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OPERATOR MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD)

ADDITIONAL AUTHORIZATION LIST (AAL)

INTRODUCTION

Scope

This work package lists additional items you are authorized for the support of the NLCS.

General

This list identifies items that do not have to accompany the NLCS and that do not have to be turned in with it. These items are all authorized to you by CTA, MTOE, TDA, or JTA.

Explanation of Columns in the AAL

Column (1) - National Stock Number (NSN). Identifies the stock number of the item to be used for requisitioning purposes.

Column (2) - Description, Commercial and Government Entity Code (CAGEC), and Part Number (P/N). Identifies the Federal item name (in all capitals) followed by a minimum description when needed. The last line below the description is the CAGEC (in parentheses) and the part number.

Column (3) - Usable On Code. When applicable, gives you a code if the item you need is not the same for different models of equipment. Column (4) - Unit of Measure (U/M). Indicates the physical measurement or count of the item as issued per the National Stock Number shown in column (1).

Column (5) - Qty Recm. Indicates the quantity recommended.

ADDITIONAL AUTHORIZATION LIST

Table 1. Additional Authorization List.

(1)	(2)	(3)	(4)	(5)
NATIONAL STOCK NUMBER	DESCRIPTION, CAGEC, AND PART NUMBER	USABLE ON CODE	U/M	QTY RECM
1005-01-295-1832	SHOTGUN: 12 Gauge (41758) 50518		EA	50

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OPERATOR AND UNIT MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD)

EXPENDABLE AND DURABLE ITEMS LIST

INTRODUCTION

Scope

This work package lists expendable and durable items that you will need to operate and maintain The Non-Lethal Capability Set. This list is for information only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, Expendable/Durable Items (Except Medical, Class V Repair Parts, and Heraldic Items), or CTA 8-100, Army Medical Department Expendable/Durable Items.

Explanation of Columns in the Expendable/Durable Items List

Column (1) - Item Number. This number is assigned to the entry in the list and is referenced in the narrative instructions to identify the item (e.g., Use brake fluid (item 5, WP 0098 00).).

Column (2) - Level. This column identifies the lowest level of maintenance that requires the listed item. (C = Operator/Crew, O = Unit, F = Direct Support, H = General Support, D = Depot).

Column (3) - National Stock Number (NSN). This is the NSN assigned to the item which you can use to requisition it.

Column (4) - Item Name, Description, Commercial and Government Entity Code (CAGEC), and Part Number (P/N). This column provides the other information you need to identify the item.

Column (5) - Unit of Measure (U/M). This code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

EXPENDABLE AND DURABLE ITEMS LIST

Table 1. Expendable and Durable Items List.

(1)	(2)	(3)	(4)	(5)
ITEM NUMBER	LEVEL	NATIONAL STOCK NUMBER	ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER	U/M
1	О		BATTERY: for Light Kit (0N995) D123A	EA
2	О		BATTERY: "C" Cell Batteries, for Portable Bullhorn (0N995) BNCCELLS	EA
3	О		BATTERY: AA Alkaline Battery, used w/wireless microphone (0N995)	EA
4	0		BATTERY: 12V rechargeable lead acid battery used on High Intensity Light (0N995)	EA
5	О		BATTERY: 9V Alkaline battery used with ground mounted bullhorn, amplifier, audio frequency (0N995)	EA
6	О		BATTERY: 3V, lithium batteries used w/Shield, Light, Individual High Intensity Flashlight and Light for 12 Gage Shotgun (0N995)	EA
7	0		CORD: 550 (XXXXX)	EA
8	0		CORD: communication wire (XXXXX)	EA
9	0	6640-00-063-7872	FUNNEL, COMMON, LABORATORY: (81349) MIL-F-36748	EA
10	0		LAMP: 6V, replacement bulb for Individual High Intensity Light (0N995)	EA
11	О		WIPES:	LB

OPERATOR MAINTENANCE NON-LETHAL CAPABILITY SET (NSN TBD)

AMMUNITION INFORMATION

INITIAL SETUP:

ReferencesReferences - ContinuedTB 9-1310-255-12TM 9-1330-200-12TM 9-1005-303-14TM 9-1330-200-34TM 9-1010-221-10TM 43-0001-28TM 9-1300-251-20&PTM 43-0001-29

TM 9-1300-251-34

AMMUNITION FOR 12 GAUGE SHOTGUN

Dummy Cartridge, 12-Gauge



12-gauge dummy cartridge is used for familiarization and training purposes and will be appropriately marked.

12 Gauge Dummy Cartridge:

Maximum effective range NA
Velocity NA
UNO serial number 0012

12 Gauge (Point Control) Round, XM1012

WARNING

Beyond 20 meters the projectile loses accuracy and may no longer have the velocity required to stun an individual.

Shots fired at subjects closer than 10 meters or shots striking the head or groin may cause serious injury or death.



The point target cartridge round gives the soldier a capability to stun individuals by delivering a strong blow to the body without penetrating the body. This munition fills a wide range of possible non-lethal weapons applications. In crowd control it gives a soldier, convoy or crowd control formation a multi-shot non-lethal capability that can be used to break contact, enforce a buffer zone (stand off distance) with a violent crowd, or to stun an individual threat for possible detention by snatch teams. It can also provide EPW facilities and US military detention facilities with similar capabilities. The round is designed to be fired at center mass of an adult subject at ranges between 10 meters and 20 meters.

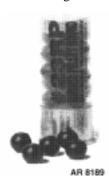
12 Gauge (Point Control) Round, XM1012:	
NSN	1305-01-470-2405
Model	XM1012
Weight	0.344 lb
Length	2.45 in.
Diameter	0.32 in.
Cube	0.006 cu ft
Performance:	
Velocity	500 fps
Maximum range	250 ft (76.3 m)/Between 10 and 20 m
Maximum effective range	100 ft (18.3 m)/30.5 m
Packaging:	
Quantity	3260
Weight	55 lb
Cube	0.899 cu ft
DODAC	1305-AZ14
UNO serial number	0012
UNO proper shipping name	CARTRIDGES FOR WEAPONS
Shipping and Storage Data:	
Quantity distance class/storage compatibility	
group	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Packing quantity	3,000 per set

12 Gauge (Area) Round, XM1013

WARNING

Beyond 20 meters the projectile loses accuracy and may no longer have the velocity required to stun an individual.

Shots fired at subjects closer than 10 meters or shots striking the head or groin may cause serious injury or death.



The area target cartridge gives the soldier a capability to stun/deter two to three people by delivering a strong blow to the body without penetrating the body. This munition fills a wide range of possible non-lethal weapons applications. In crowd control it gives a soldier, convoy or crowd control formation a multi-shot non-lethal capability that can be used to break contact, enforce a buffer zone (stand off distance) with a violent crowd, or to clear an area of a violent crowd. It also can provide EPW facilities and US military detention facilities with similar capabilities.

1	12	Gauge	(Area)	Round	XM1013	٧.
	L	Ciange	CATEAL	NOuna.	AWITOT	٦.

NSN	1305-01-470-2139
Model	XM1013
Weight	0.344 lb
Length	2.37 in.
Diameter	0.32 in.
Cube	0.006 cu ft

Performance:

Maximum range	125 ft/38 m
Maximum effective range	60 ft/18.3 m
Velocity	900 fps

Packaging:

Quantity	320
Weight	33 lb
Cube	0.899 cu ft
DODAC	1305-AZ15
UNO serial number	0012

UNO proper shipping name CARTRIDGES FOR WEAPONS

Shipping and Storage Data:

Quantitydistanc@lass/storag@ompatibilitygroup	1.4S
Storage code	Class V
DOT shipping class	C

DOT designation SMALL ARMS AMMUNITION

40MM ROUNDS

The 40mm (point) and 40mm (area) rounds give soldiers the capability to stun/deter two to three people by delivering a strong blow to the body without penetrating the body. In crowd control it gives a soldier, convoy or crowd control formation a multishot non-lethal capability that can be used to break contact, enforce a buffer zone (stand off distance) with a violent crowd, or to clear an area of a violent crowd. It can also provide EPW facilities and US military detention facilities with similar capabilities.

40mm (Point) Round

WARNING

Shots fired at subjects closer than 10 meters or shots striking the head or groin may cause serious injury or death.

Beyond 50 meters the projectile loses accuracy and may no longer have the velocity required to stun an individ-

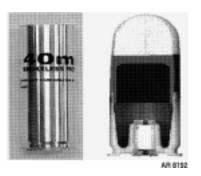
Use with Launcher M203. 40MM non-lethal munitions cannot be used with the MK19 MOD3 40MM grenade machine gun.

Use a dedicated gunner for the M1006 non-lethal cartridge separate from the M203 gunners that use black powder non-lethal round. This will avoid the potential for lodged M1006.

Plastic residue on the barrel produced from firing the M1006 cannot be removed with the standard M203 cleaning kit bore brush. Use the metal bore brush from the 40MM MK19 grenade machine gun kit, or fire a 40MM M781 practice or 40 MM M433, HEDP cartridge to remove the residue.

Do not fire M1006 against hard surfaces closer than 20 meters. There is a potential for rebounds and eye damage could occur. Eye protection for the gunner is recommended.





Cartridge, 40 Millimeter, Non-Lethal: 40mm Sponge Point Grenade, M1006:

Projectile material Foam rubber nose and high density plastic body

Contents Black powder and primer

Weight:	
Cartridge	0.15 lb
Projectile	30 gr
Length	3.95 in.
Diameter	40 mm
Cube	0.041 cu ft
Effective range	10 to 50 m
Maximum range	175 m
Muzzle velocity	265 +/- 20 fps
Propellant	Winchester mix (130 mg)
Primer	M42C1
Temperature Limits:	
Lower (use and storage)	0°F
Upper:	
Use	+125°F
Storage	-65°F
Packaging:	
Contents	22 rounds per metal box; 2 metal boxes (44 rounds) per wirebound
	wooden box
Quantity	44
Weight	32 lb
Cube	1.0 cu ft
Outer packaging	Wooden box
Inner packaging	M2A1 metal box
Hazard class	1.4S
Cartridge marking	CARTRIDGE, 40MM, NON-LETHAL, M1006
Packing quantity	2,400 per set

40mm (Area) Multiple Rubber Ball (Stinger), 40B

WARNING

This non-lethal munition has the potential for inflicting lethal injuries and should be used with discretion. Do not fire at live targets during training.

Probability of lethal injury increases as distance between operator and target lessens. Do not fire at a distance from target of less than 10 meters.

Never fire another round of any type to dislodge a projectile from the barrel.

CAUTION

After firing the previous version of 40B or 40F, clean barrel of black powder combustion residue and seared rubber residue before firing any other type of round. Failure to do so may result in projectile becoming lodged inbore.

The 40-MM (area) round (stinger), 40B, gives the soldier the capability to stun or deter two to three people without penetrating the body. The round is designed to be fired at the center mass of the adult subject at ranges between 10 and 30meters.



40mm (Area) Round (Stinger), 40B:	
NSN	1310-00-X96-8808
Part number	12977305
Model	40B
Weight	0.84 lb
Length	4.8 in.
Diameter	40 mm
Cube	0.02 cu ft
Performance:	
Minimum range	10 m
Maximum range	30.5 m
Effective range	10-15 m
Velocity	325 fps
Packaging:	
Quantity	64
Weight	54 lb
Cube	1.289 cu ft
Hazard class	1.4C
UNO serial number	0339
UNO proper shipping name	CARTRIDGES FOR WEAPONS, INERT PROJECTILE
Packing quantity	2,400 per set
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END OF WORK PACKAGE